



354722

Screening Site Inspection
Final Report

for

Smith Oil (AKA Premium Oil) Site
ILD 053 197 547

November 11, 1996

Prepared for
U.S. Environmental Protection Agency
under Alternative Remedial Contracting Strategy
Contract 68-W8-0064, Work Assignment 29-5JZZ

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W8
5JZZ

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1.0 Introduction

On August 7, 1991, the Alternative Remedial Contracting Strategy (ARCS) contractor was authorized, by approval of the work plan by the U.S. Environmental Protection Agency (USEPA) Region V, to conduct a screening site inspection (SSI) of the Smith Oil site in Winnebago County, Illinois.

The Smith Oil site was initially placed on the Comprehensive Environmental Response, Compensation, and Liability Act Information System on March 14, 1989, as a result of a request for discovery action initiated by the Illinois Environmental Protection Agency (IEPA).

The facility received its Comprehensive Environmental Response, Compensation, and Liability Act evaluation in the form of a preliminary assessment (PA) report completed by the IEPA, on May 26, 1989. The sampling portion of the SSI was conducted on October 19, 1993, when a field team collected five soil and four sediment samples.

The purposes of the SSI have been stated by USEPA in a directive outlining pre-remedial program strategies. The directive states:

All sites will receive a screening SI to 1) collect additional data beyond the PA to enable a more refined preliminary HRS (Hazard Ranking System) score, 2) to establish priorities among sites most likely to qualify for the NPL (National Priorities List), and 3) to identify the most critical data requirements for the listing [expanded] SI step. A screening SI will not have rigorous data quality objectives (DQOs). Based on the refined preliminary HRS score and other technical judgement factors, the site will then either be designated as NFRAP (no further remedial action planned) or carried forward as an NPL listing candidate. A listing [expanded] SI will not automatically be done on these sites. First, they will go through a management evaluation to determine whether they can be addressed by another authority such as RCRA (Resource Conservation and Recovery Act).... Sites that are designated as NFRAP or deferred to other statutes are not candidates for a listing [expanded] SI.

The listing [expanded] SI will address all data requirements of the revised HRS using field screening and NPL level DQOs. It may also provide needed data in a format to support remedial investigation work plan development. Only sites that appear to score high enough for listing and that have not been deferred to a higher authority will receive a listing [expanded] SI (USEPA 1988).

USEPA Region V requested the ARCS Contractor to identify sites during the SSI that may require removal action to remediate an immediate human health or environmental threat.

2.0 Site Background

2.1 Introduction

This section includes information obtained during the SSI and from reports of previous site activities.

2.2 Site Description

Smith Oil is located at 1100 Kilburn Avenue in Rockford, Winnebago County, Illinois. The site is in the southeast quarter of Section 15, Township 44 North, Range 1 East. Smith Oil began operating in 1911 as a petroleum distributor. Before closing in 1983, site operations included selling petroleum products and solvents, oil reprocessing, and oil blending. Smith Oil is in an area of mixed land use. The area is predominantly industrial and commercial, but residential and recreational areas are also present. Figure 2-1 is a site location map. Figures 2-2 and 2-3 are the site layout and former site layout, respectively.

In 1970, Sun Oil Corp. purchased Smith Oil. Smith Oil consisted of several buildings east of North Fork Kent Creek (Kent Creek), several aboveground tanks east of Kent Creek, and a tank storage yard and building west of the creek.

According to a former Smith Oil employee, the tank storage yard was about 30 feet below grade. Petroleum products and solvents such as gasoline, stoddard solvent, xylene, toluene, paint thinner, and fuel oil were stored in the tank storage yard until they were sold. The aboveground tanks east of Kent Creek appear to have stored materials used in oil blending operations that took place inside facility buildings. For this report, the term "tank farm" includes the tank storage yard and the aboveground tanks.

Sun Oil Corp. operated Smith Oil until 1983, and then donated the site to Rockland Park Foundation. Rockland Park Foundation sold one portion of the property to Premium Oil, another to Dean Foods, and deeded the remaining area to the Rockford Park District.

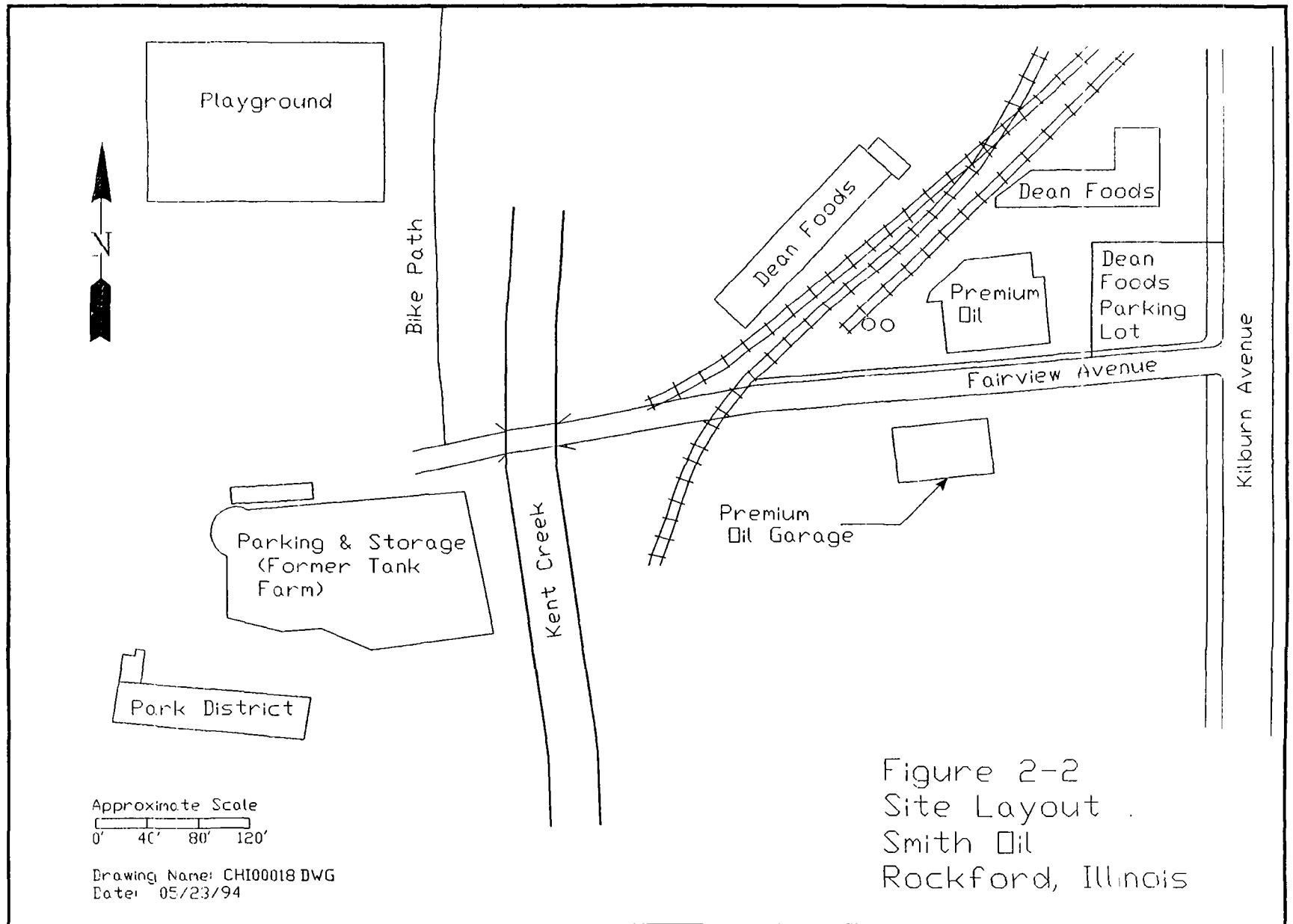
Premium Oil occupies a building Smith Oil used for blending operations. The building is on the north side of Fairview Avenue east of Kent Creek. Operating since 1985, Premium Oil custom blends oil. Premium oil uses two aboveground oil storage tanks east of Kent Creek to store the non-hazardous oil used in their operations. Drummed oil additives are stored inside the Premium Oil building. Most land around the building is covered with cement or gravel.

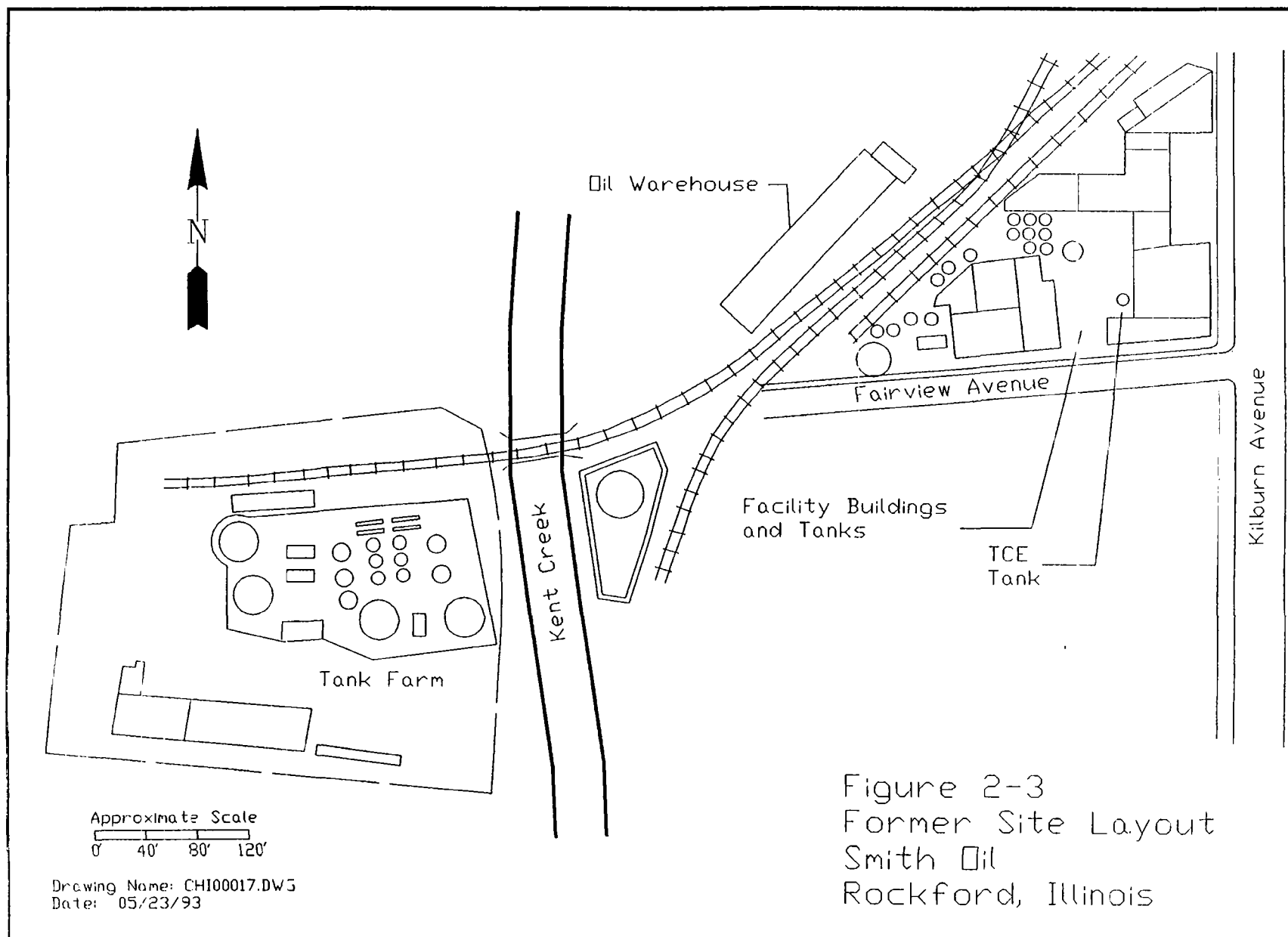
Dean Foods' purchase included several buildings along Kilburn Avenue and a long metal building west of the railroad tracks. File material indicates the building west of the



Drawing Name: CH100019.DWG
Date: 05/23/94

Figure 2-1
Site Location Map
Smith Oil
Rockford, Illinois





railroad tracks was used as an oil warehouse. Uses of the buildings along Kilburn Avenue are unknown. Dean Foods demolished buildings at the corner of Kilburn and Fairview Avenues and leases office space in a building north of the intersection to Rockford Housing and Redevelopment. The long building west of the railroad tracks is used for storage space.

Rockford Park District occupies the past tank storage yard area. This area consists of a building and a parking lot. The park district uses the parking lot to store vehicles and equipment.

2.3 Site History

2.3.1 Operational History

Smith Oil began operating in 1911 as a petroleum distributor. By 1983, operations had expanded from distributing petroleum products to selling a wider range of products, oil reprocessing, and oil blending. In 1983, after being sold to Sun Oil in 1970, activities onsite ceased. In 1985, Premium Oil began a fuel blending business in one of the buildings onsite. Premium Oil continues to operate today.

2.3.2 Summary of Onsite Environmental Work

Several complaints were filed against the facility. In 1972, Smith Oil was cited for discharging wastewater from barrel washing into an oil water separator. Effluent from the separator drained to Kent Creek. The wastewater was appropriately rerouted to the sanitary sewer. Also in 1972, runoff from the area east of Kent Creek went into a ditch bypassing the separator. This area was regraded and repaved so that drainage would enter the separator.

In December 1982, the IEPA received an anonymous complaint against Smith Oil. A Rockford newspaper reporter referred the complaint, made by a former Smith Oil employee, to the IEPA. The complainant stated Smith Oil sold trichloroethylene (TCE) in bulk from an underground storage tank which had allegedly leaked for three years. The tank was located inside the facility receiving area north of Fairview Avenue. Also, the complainant stated Smith Oil dumped waste solvent into Kent Creek.

Sun Oil removed all tanks and associated piping from the tank storage area and all but two of the above ground tanks east of Kent Creek in 1986 and 1987. The remaining tanks are used by Premium Oil. This work was accomplished by the Elmwood Tank and Piping Corporation, Buffalo, New York. Rockland Park Foundation attorneys contacted

IEPA asking if sampling was required for closure before the tank storage area excavation was filled. No IEPA response is in the files.

In December 1989, IEPA conducted a Preliminary Assessment Reconnaissance (IEPA 1989). No obvious signs of contamination were noted, and the site was assigned a medium priority.

2.4 Applicability of Other Statutes

The Illinois RCRA notifier's list has four entries for the Smith Oil site (USEPA 1994). The most current entry, dated October 5, 1985, lists the facility as active, but no longer generating hazardous waste. A former Smith Oil employee, however, confirmed the site ceased operating in 1983.

3.0 Site Inspection Activities and Analytical Results

3.1 Introduction

This section outlines procedures used and observations made during the SSI conducted at Smith Oil. Sampling activities were conducted in accordance with the Quality Assurance Project Plan (QAPjP) dated September 27, 1991. Figure 3-1 shows each sample location. Table 3-1 summarizes sample descriptions and locations.

Appendix B presents the USEPA Potential Hazardous Waste Site Inspection Report (Form 2070-13).

Samples collected for this SSI were analyzed for organic and inorganic substances contained on the USEPA Target Compound List (TCL) and Target Analyte List (TAL) by USEPA Contract Laboratory Program participant laboratories. Appendix C presents the TCL and TAL lists. Appendix D summarizes analytical data generated by SSI sampling. Appendix E contains photographs of the site and sample locations.

3.2 Site Reconnaissance

A SSI reconnaissance was conducted at Smith Oil on July 28, 1993. This visit included a visual site inspection to determine the site's status, activities, health or safety hazards, and potential sampling locations.

3.3 Site Representative Interview

Richard Fedeli, owner of Premium Oil and a 25-year employee of Smith Oil, was interviewed. Fedeli worked for Smith Oil from the late 1950s to the early 1980s. Later, he was employed by a Smith Oil competitor for 20 months before he and his business partner purchased part of the Smith Oil site and opened Premium Oil in 1985. Upon questioning, Fedeli stated that he had no knowledge of a 1983 complaint alleging a leaking TCE tank located near the corner of Kilburn and Fairview Avenues. He stated that all chlorinated solvents were stored in the tank farm. He also mentioned that, at the time the complaint was filed, Sun was closing the facility, and its employees were losing their jobs. He had not heard of a complaint alleging waste solvents were dumped into Kent Creek.

3.4 Groundwater Sampling

The sampling plan proposed collecting samples from up to three residential wells. However, no downgradient wells could be identified within half a mile of the site, so no groundwater samples were collected.

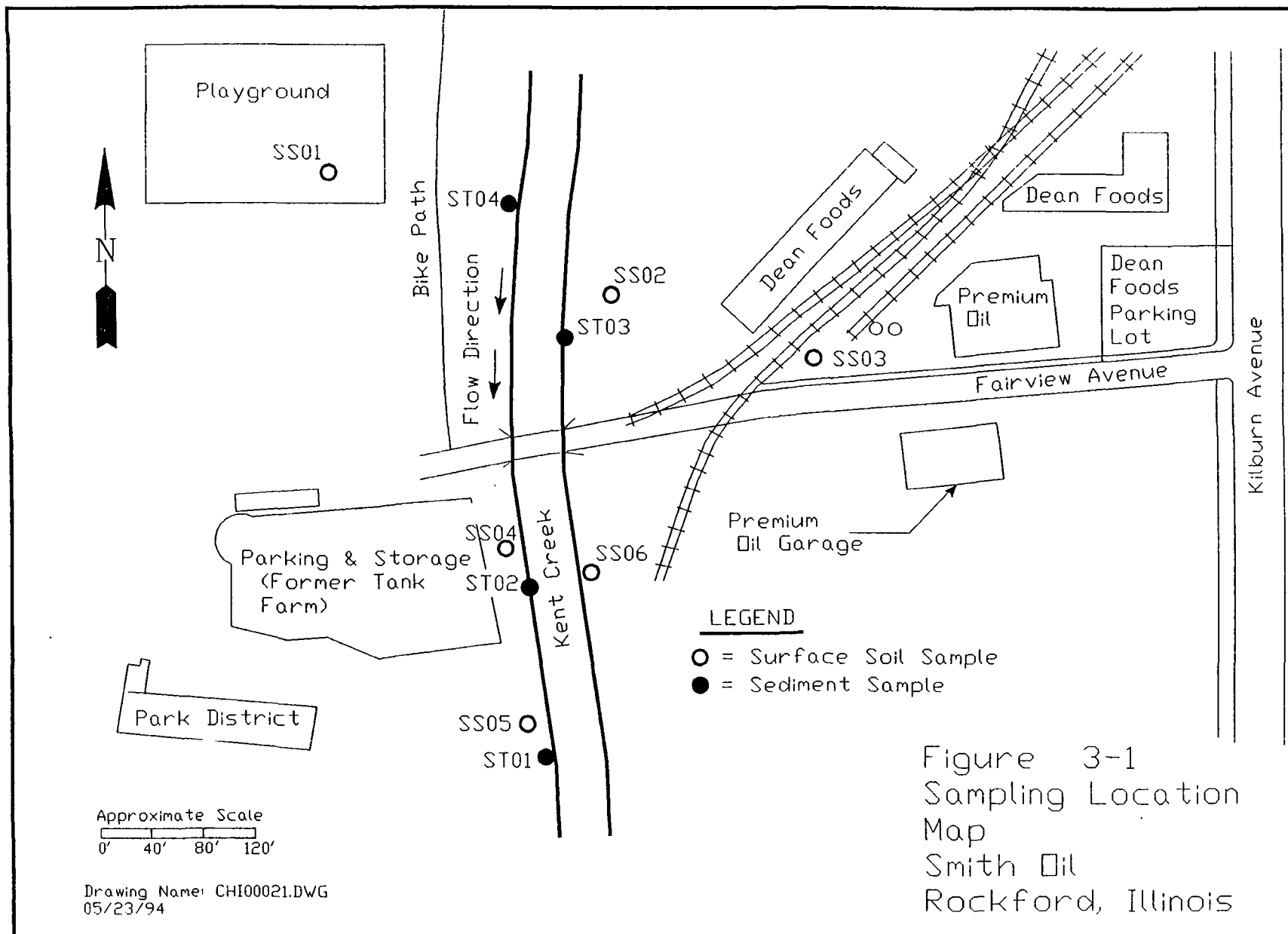


Table 3-1
Smith Oil
Sample Descriptions

Sample	Depth Units	Appearance	Location
ST01	2 - 6 inches	Dark brown sand	West bank of Kent Creek about 250 feet south of the Fairview Ave. bridge
ST02	2 - 6 inches	Medium brown to black fine sand	West bank of Kent Creek about 30 feet south of the Fairview Ave. bridge
ST03	2 - 6 inches	Dark brown silt	East bank of Kent Creek opposite the oil warehouse (Dean Foods), about 100 feet north of the Fairview Ave. bridge
ST04	2 - 6 inches	Dark brown silt	West bank of Kent Creek at the southeast corner of the park district property; selected to establish background conditions
SS01	2 - 6 inches	Medium brown silt	About 200 feet west of Kent Creek in a playground; selected to establish background conditions
SS02	2 - 6 inches	Brown silty sand	About 40 feet east of Kent Creek opposite the oil warehouse (Dean Foods)
SS03	---	No sample collected	West of Premium Oil facility and just north of Fairview Ave. bridge, this area is gravel fill over pavement
SS04	2 - 6 inches	Dark brown silt	About 80 feet south of the Fairview Ave. bridge and 2 feet west of Kent Creek
SS05	2-6 inches	Dark brown silt	About 50 feet north of the park district's south boundary and 3 feet west of Kent Creek

Table 3-1 (Continued) Smith Oil Sample Descriptions			
Sample	Depth Units	Appearance	Location
SS06	2-6 inches	Light brown/gray sand	5 feet east of Kent Creek and about 130 feet south of the Fairview Ave. bridge

3.5 Sediment Sampling

On October 19, 1993, a field team collected four sediment samples using decontaminated stainless steel spoons. Sediment samples for organic analysis were sealed, labeled, packaged, and shipped to Revet Environmental in Worchester, Massachusetts, on October 20, 1993. Sediment samples for inorganic analysis were shipped to Chemtech Consulting Group in Englewood, New Jersey, on October 20, 1993.

Reusable sampling equipment and personal protective equipment (PPE) were decontaminated before transport offsite. Disposable sampling and PPE items were discarded in accordance with procedures outlined in the SSI project work plan and the QAPjP.

Sediment sample ST01 was taken from the west bank of Kent Creek, approximately 250 feet south of the Fairview Avenue bridge, to evaluate the offsite migration of contaminants. Sediment sample ST02 was taken from the west bank of Kent Creek, approximately 30 feet south of the Fairview Avenue bridge. Sediment sample ST03 was taken from the east bank of Kent Creek, approximately 100 feet north of the Fairview Avenue bridge. These samples were collected to assess the surface water pathway near to the source.

Background sediment sample ST04 was taken from the west bank of Kent Creek at the north central section of the park district property, upstream of the probable point of entry for surface water runoff.

3.6 Soil Sampling

On October 19, 1993, a field team collected five soil samples using decontaminated stainless steel spoons. Samples for organic analysis were sealed, labeled, packaged, and shipped to IEA in Worchester, Massachusetts, on October 20, 1993. Soil samples for

inorganic analysis were shipped to Mack Laboratories in Englewood, New Jersey, on October 20, 1993.

Reusable sampling equipment and PPE were decontaminated before transport offsite. Disposable sampling and PPE items were discarded in accordance with procedures outlined in the SSI project work plan and the QAPjP.

Background soil sample SS01 was collected from a location about 200 feet west of a paved bike path that parallels Kent Creek and is due west of the Dean Foods oil warehouse building. This location was chosen to be representative of natural soil conditions in the area. Soil sample SS02 was taken from the perimeter of the oil warehouse yard. Soil sample SS03 was not collected because the area was covered with gravel. Soil sample SS04 was collected about 80 feet south of the Fairview Avenue bridge and 2 feet west of Kent Creek. Soil sample SS05 was collected about 50 feet north of the park district's south boundary and 3 feet west of Kent Creek. Soil sample SS06 was collected 5 feet east of Kent Creek, just west of the former aboveground tank, about 130 feet south of the Fairview Avenue bridge. These samples were collected to evaluate a release of contaminants to the surface soil.

3.7 Analytical Results

This section summarizes analytical results from SSI samples. Appendix D presents SSI analytical data.

3.8 Key Samples

"Key samples" are samples that contain substances in sufficient concentration to document an observed release. Table 3-2 identifies SSI key samples in the surface water and soil pathways.

Table 3-2
Smith Oil
Key Sample Summary

Sediment				
Substance				
	ST01	ST02	ST03	ST04 (Background)
Organics (µg/kg)				
Methylene Chloride	55	---	59	13 UJB
Acenaphthene	520	---	---	450 U
Fluorene	700	---	---	450 U
Phenanthrene	5400 D	---	---	290 J
Anthracene	1200	---	---	43 J
Carbazole	780	---	---	37 J
Fluoranthene	8500 D	---	2600	720
Pyrene	5900 D	---	---	510
Benzo(a) Anthracene	3200	---	---	270 J
Chrysene	3200	---	---	370 J
Benzo(b)Fluoranthene	2400	---	---	250 J
Benzo(k)Fluoranthene	2900	---	---	360 J
Benzo(a)Pyrene	2800	---	---	290 J
Indeno(1,2,3-cd)Pyrene	1000	---	---	150 J
Benzo(g,h,i)Perylene	940	---	---	140 J
Inorganics (mg/kg)				
Mercury	---	0.30	---	0.14 U

Table 3-2 (Continued) Smith Oil Key Sample Summary					
Soil					
Substance	Sample Number				
	SS01 (Background)	SS02	SS04	SS05	SS06
Organics (µg/kg)					
Phenanthrene	45 U	---	---	---	1400
Fluoranthene	100 U	---	---	---	2400
Pyrene	86 U	---	---	---	2100
Benzo(a)anthracene	42 U	---	---	---	990
Chrysene	63 U	---	---	---	1200
Benzo(b)fluoranthene	78 U	---	---	---	1300
Benzo(k)fluoranthene	420 U	---	---	---	430
Benzo(a)pyrene	43 U	---	---	---	860
4,4'-DDD	4.2 U	22 P	---	---	---
4,4'-DDT	4.2 U	13 P	---	---	---
Alpha-Chlordane	2.1 U	57 EP	---	---	---
Gamma-Chlordane	2.1 U	43 EP	---	---	---
Inorganics (mg/kg)					
Magnesium	1210 B	9450	11700	10300	12700
Sodium	39.4 B	135 B	---	---	---

- U Substance is undetected. The reported value is the contract required quantitation limit (CRQL) for organics and the contract required detection limit (CRDL) for inorganics.
- J Reported value is estimated.
- E Identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis.
- P Indicates greater than 25 percent difference for detected concentrations between gas chromatograph columns in pesticide/Aroclor analysis.

- B Reported value is less than the CRDL, but greater than or equal to the instrument detection limit (IDL).
- N Spiked sample recovery not within control limits.
- S Reported value determined by the method of standard additions.
- * Duplicate analysis not within control limits.

4.0 Characterization of Sources

4.1 Introduction

Smith Oil has three sources of hazardous substances: the tank farm, the TCE tank, and contaminated soil.

4.2 Tank Farm

4.2.1 Description

Smith Oil had a tank storage yard on about one acre of land immediately west of Kent Creek. The tank storage yard was about 30 feet below grade. Oil, grease, gasoline, and solvents were stored in the tanks there. East of Kent Creek were numerous aboveground storage tanks. Both areas make up the tank farm.

4.2.2 Waste Characteristics

Operations at Smith Oil included distributing fuel oil, gasoline, industrial oils, greases, and solvents. Additionally, oil reprocessing and blending took place. Characteristics of wastes generated onsite are unknown. SSI analytical results indicate the sediment in the surface water pathway contains one inorganic and 15 organics above background levels. The soil pathway contains 12 organics and two inorganics above background levels.

4.2.3 Potentially Affected Migration Pathways

Analysis of SSI samples document observed releases to the surface water and soil pathways. Sediment samples collected from the banks of Kent Creek document observed releases to the onsite segment of the surface water pathway. Samples ST01 and ST02 may be attributable to the former tank farm area.

Samples SS02, SS04, SS05, and SS06 document an observed release to the soil pathway. Sample SS06 documents a release that may be related to the Smith Oil aboveground tank immediately east of Kent Creek shown in Figure 2-3. No information is known about this tank.

The groundwater pathway is potentially affected, however, there is no data to confirm this. Air pathway effects are minimal, because the tank farm no longer exists.

4.3 TCE Tank

4.3.1 Description

No physical description is available for this tank. Figure 2-3 indicates the approximate location of the alleged tank.

4.3.2 Waste Characteristics

Information about the alleged TCE tank is unavailable; the tank was never sampled.

4.3.3 Potentially Affected Migration Pathways

There is a potential for a leaking TCE tank to affect the groundwater migration pathway.

4.4 Contaminated Soil

4.4.1 Description

SSI sampling results document contaminated soil near the tank farm, the oil warehouse (Dean Foods) and Premium Oil. The area of contaminated soil is estimated to be about 5 acres in size.

4.4.2 Waste Characteristics

Oil, grease, gasoline, and solvents were stored in aboveground and underground storage tanks. SSI sampling documents the presence of eight organics and two inorganics in the soil near the former tank farm area east of Kent Creek.

4.4.3 Potentially Affected Migration Pathways

The soil pathway is affected. Surface water runoff over the contaminated soil area may entrain soil bound hazardous substances, potentially affecting the surface water pathway.

The potential effect of the contaminated soil on the groundwater pathway is deemed minimal; however, a potential exists for migration of hazardous substances downward through the soil to the water table. Vegetation on the ground surface minimizes the potential effect to the air pathway.

4.5 Other Potential Sources Within One Mile

The Region V list of RCRA notifiers in Illinois contains over 100 facilities in Rockford; some may be within one mile of Smith Oil (USEPA 1994). No CERCLIS facilities are within one mile of the site (USEPA 1993).

5.0 Discussion of Migration Pathways

5.1 Introduction

This section includes information used to evaluate the potential effect to the environment of observed releases at Smith Oil.

5.2 Groundwater

A review of area well logs indicates the groundwater is drawn from two separate geologic units: in descending order, the Pleistocene glacial drift and the Ordovician sandstone. Well log data indicates the glacial drift extends to a depth of 110 feet. Residential wells installed to this depth or shallower are assumed to be in the glacial drift. Underlying the glacial drift are Ordovician sandstone, limestone, and shale units, including the heavily used St. Peter Sandstone aquifer. The St. Peter Sandstone is 120 to 800 feet below the glacial drift and is here collectively grouped with overlying Ordovician strata as the Ordovician aquifer. No significant confining layer exists between the glacial drift and Ordovician aquifers, and they are assumed to be interconnected.

Table 5-1 presents the population using both municipal and private wells within 4 miles of the site. The Rockford Water Department has no information on private well usage in the area. However, registered private wells in the area are considered targets in the groundwater pathway as a conservative estimate. Approximate population values presented in Table 5-1 were determined by multiplying the Winnebago County average of 2.57 persons per household by the number of houses counted in each distance ring on a topographic map, assuming that one well serves one residence (U.S. Department of Commerce 1991; U.S. Geological Survey (USGS) 1971). Drinking water from the glacial drift is supplied to 1,562 people using private wells and 3,000 people using municipal wells. Drinking water from the Ordovician aquifer is supplied to 830 people using private wells and 82,192 people using municipal wells.

5.3 Surface Water

Site overland runoff drains to Kent Creek, which flows southeast at an assumed flow rate of 50 cubic feet per second. The probable point of entry to Kent Creek is onsite. Kent Creek flows south and enters the Rock River approximately 1.7 miles

Table 5-1 Smith Oil Estimated Population Relying on Groundwater	
Distance From Site	Estimated Population
0 to 1/4 mile	0
1/4 to 1/2 mile	3
1/2 to 1 mile	16,056
1 to 2 miles	13,655
2 to 3 miles	33,138
3 to 4 miles	24,732
Total	87,584

Source: ISWS, 1993; U.S. Department of Commerce, 1991; USGS, 1971a, 1971b, 1971c, 1973

downstream. The 15 mile target distance limit expires in the Rock River. No surface water intakes are within 15 miles downstream of the site (IEPA 1983). No critical habitats for endangered species are known to exist within the 15 mile downstream target area on Kent Creek or the Rock River; however, segments of the Rock River are fronted by wetlands (Illinois Department of Conservation 1993, U.S. Department of Interior, 1987). The Rock River is used for recreational purposes and as a fishery for human consumption.

5.4 Soil

The site is located in an urban/industrial area. Some buildings are surrounded by fences, but site access near Kent Creek is unrestricted. An estimated 30 workers are present on the Smith Oil site. This figure assumes that Rockford Housing Development employs six workers, and the Rockford Park District employs 20 workers. Premium Oil employs four workers. No school, day care center, or occupied residence exists within 200 feet of identified source areas.

5.5 Air

No air samples were taken during the sampling visit, except for standard air monitoring. Readings with a photoionization detector were at background levels around the site and at sampling locations.

6.0 References

Guyer & Enichen Lawyers, 1988. Letter from G. Michael Scheurich to the Illinois Environmental Protection Agency (IEPA). April 6.

Illinois Department of Conservation, 1993. Division of Natural Heritage, Letter of Endangered Species and Habitats, August 11.

IEPA, 1983. List of Public and Food Processing Water Supplies Utilizing Surface Water, Division of Public Water Supplies, July.

IEPA, 1989. CERCLA Preliminary Assessment Report. Smith Oil (aka: Premium Oil) (ILD 053 191 547) by Gary Reside, May 26.

Illinois State Geological Survey (ISGS), 1967. Geologic map of Illinois.

ISGS, 1979. Quaternary Deposits of Illinois.

Illinois State Water Survey (ISWS), 1993. Printouts of public, industrial and commercial (PICs) database and Private Well Database.

ISWS, 1993. Copies of Well Logs for Winnebago County.

Rockford Park District, 1988. Letter to Micheal Scheurich, Guyer & Enichen. August 11.

U.S. Department of Commerce, Proof Copy of Table Generated for 1990, CPH-1: Summary Population and Housing Characteristics, issued by Bureau of the Census, August 1991.

U.S. Department of Interior, National Wetlands Inventory Maps of Illinois: Rockford South, 1987, Rockford North, 1987, Kishwaukee, 1987, Winnebago, 1987; scale 1:24,000.

U.S. Environmental Protection Agency (USEPA), 1988. "Pre-Remedial Strategy Implementing SARA," Office of Solid Waste and Emergency Response, Washington, D.C., Directive Number 9345.2-101, February.

USEPA, 1993. CERCLIS List-8: Site/event listing, Illinois, October 4.

USEPA, 1994. Region V list of RCRA notifiers in Illinois, March 10.

U.S. Geological Survey (USGS), 1971. Topographic map, Rockford North, Illinois, 7.5 minute quadrangle, 1:24,000, photorevised 1976.

USGS, 1971. Topographic map, Rockford South, Illinois, 7.5 minute quadrangle, 1:24,000, photorevised 1976.

USGS, 1971. Topographic map, Winnebago, Illinois, 7.5 minute quadrangle, 1:24,000, photorevised 1976.

USGS, 1973. Topographic map, Kishwaukee, Illinois, 7.5 minute quadrangle, 1:24,000, photorevised 1976.

USGS, 1991. Water Resources Data, Illinois, Volume 1. except Illinois River Basin, Water Year 1991.

Appendix A

Smith Oil

4-Mile Radius Map and 15-Mile Surface Water Route Map

SDMS US EPA Region V

Imagery Insert Form

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Specify Type of Document(s) / Comment

4-MILE RADIUS MAP; 15-MILE SURFACE WATER ROUTE MAP

☐

Other:

Appendix B

Smith Oil

USEPA Form 2070-13



Site Inspection Report

5967-
C.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
ILD 053 197547

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)

Smith Oil

02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER

1100 Kilburn Avenue

03 CITY

Rockford

04 STATE 05 ZIP CODE

IL

61101

06 COUNTY

Winnebago

07 COUNTY CODE

201

08 CONG DIST

16

09 COORDINATES

4.217100

LONGITUDE

89 6100

10 TYPE OF OWNERSHIP (Check one)

☒ A. PRIVATE ☐ B. FEDERAL ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL
☐ F. OTHER ☐ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION

07 / 28 / 93

MONTH DAY YEAR

02 SITE STATUS

☒ ACTIVE
☐ INACTIVE

03 YEARS OF OPERATION

late 1950's 1983

BEGINNING YEAR ENDING YEAR

UNKNOWN

04 AGENCY PERFORMING INSPECTION (Check all that apply)

☐ A. EPA ☒ B. EPA CONTRACTOR B&V Waste Science Inc ☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR
☐ E. STATE ☐ F. STATE CONTRACTOR ☐ G. OTHER

05 CHIEF INSPECTOR

Ramona Reints

06 TITLE

Project Scientist

07 ORGANIZATION

BVWS

08 TELEPHONE NO.

(312) 346-3775

09 OTHER INSPECTORS

Tonya Hay

10 TITLE

Project Scientist

11 ORGANIZATION

BVWS

12 TELEPHONE NO.

(312) 346-3775

Baltazar Berena

Technician

BVWS

(312) 346-3775

13 SITE REPRESENTATIVES INTERVIEWED

Dick Fedeli

14 TITLE

Owner

15 ADDRESS

923 Fairview Avenue

16 TELEPHONE NO.

(815) 963-3800

Kevin Fedeli

Sales Representative

Rockford, IL

()

17 ACCESS GAINED BY

(Check one)

☒ PERMISSION
☐ WARRANT

18 TIME OF INSPECTION

19 WEATHER CONDITIONS

IV. INFORMATION AVAILABLE FROM

01 CONTACT

Alan Altur

02 OF (Agency/Organization)

U.S.E.P.A.

03 TELEPHONE NO.

(312) 886-0390

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM

Oliver Graf

05 AGENCY

U.S.E.P.A.

06 ORGANIZATION

-BVWS

07 TELEPHONE NO.

(312) 346-3775

08 DATE

05 / 19 / 94

MONTH DAY YEAR



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE | 02 SITE NUMBER
ILD | 053 197547

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- ☐ A. SOLID
☐ B. POWDER, FINES
☐ C. SLUDGE
☐ D. OTHER _____
(Specify)
- ☐ E. SLURRY
☒ F. LIQUID
☐ G. GAS

02 WASTE QUANTITY AT SITE

Measures of waste quantities
(Must be independent)

TCNS _____
CUBIC YARDS unknown
NO. OF DRUMS _____

03 WASTE CHARACTERISTICS (Check all that apply)

- X ☐ A. TOXIC
☐ B. CORROSIVE
☐ C. RADIOACTIVE
☐ D. PERSISTENT
- X ☐ E. SOLUBLE
☐ F. INFECTIOUS
☐ G. FLAMMABLE
☐ H. IGNITABLE
- ☐ I. HIGHLY VOLATILE
☐ J. EXPLOSIVE
☐ K. REACTIVE
☐ L. INCOMPATIBLE
☐ M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE			
SOL	SOLVENTS	unknown		
PSD	PESTICIDES	unknown		
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

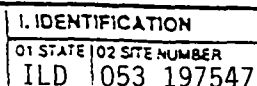
01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
SOL	Trichloroethylene	79016	Underground Storage	unknown	unknown
OCC	methylene chloride	75-09-2		59	mg/kg
OCC	acenaphthene	83-32-9		520	mg/kg
OCC	fluorene	86-73-7		700	mg/kg
OCC	phenanthrene	85-01-8		5,400D	mg/kg
OCC	anthracene	120-12-7		1,200	mg/kg
OCC	carbazole			780	mg/kg
OCC	fluorathene	206-44-0		8,500D	mg/kg
OCC	pyrene	129-00-0		5,900D	mg/kg
OCC	benzo(a) anthracene	56-55-3		3,200	mg/kg
OCC	chrysene	218-01-9		3,200	mg/kg
OCC	benzo(b) fluoranthene	205-99-2		2,400	mg/kg
OCC	benzo(k) fluoranthene	207-08-9		2,900	mg/kg
OCC	benzo(a) pyrene	50-32-8		2,800	mg/kg
OCC	lindo (1,2,3 -cd) pyrene	193-39-5		1,000	
	continued on next page				

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS	unknown	unknown	FDS	unknown	unknown
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

BYWS, 1994



VI. SOURCES OF INFORMATION (Cite specific references, e.g., State file, Barton analysis, reports)



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

ILD 053 197547

1. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☐ A. GROUNDWATER CONTAMINATION 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 87,584 04 NARRATIVE DESCRIPTION

No groundwater samples were taken.

01 ☐ B. SURFACE WATER CONTAMINATION 02 ☐ OBSERVED (DATE: 10/19/93) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 87,584 04 NARRATIVE DESCRIPTION

Sediment samples were taken from the banks of Kent Creek, which flows into the Rock River. No surface water intakes are found along the 15 - mile pathway. There is potential for groundwater from site to enter Kent Creek.

01 ☐ C. CONTAMINATION OF AIR 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

unknown

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

unknown

01 ☐ E. DIRECT CONTACT 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

unknown

01 ☒ F. CONTAMINATION OF SOIL 02 ☐ OBSERVED (DATE: 10/19/93) ☐ POTENTIAL ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: 5 04 NARRATIVE DESCRIPTION

Soil sampling conducted in October, 1993 indicates hazardous substances are present in onsite soils.

01 ☐ G. DRINKING WATER CONTAMINATION 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 87,584 04 NARRATIVE DESCRIPTION

Rockford area is served by two groundwater aquifers which support both municipal and private wells.

01 ☐ H. WORKER EXPOSURE/INJURY 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

unknown

01 ☐ I. POPULATION EXPOSURE/INJURY 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

unknown



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
ILD 053 197547

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

unknown

01 ☐ K. DAMAGE TO FAUNA
04 NARRATIVE DESCRIPTION (Include names of species)

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

unknown

01 ☐ L. CONTAMINATION OF FOOD CHAIN
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

unknown

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES
(Spills/Runs/Leaking drums, Leaking drums)

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☒ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: _____

04 NARRATIVE DESCRIPTION

An anonymous complaint made to IEPA alleged that Smith Oil sold trichloroethylene (TCE) in bulk, which leaked for three years.

01 ☐ N. DAMAGE TO OFFSITE PROPERTY
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

unknown

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

unknown

01 ☒ P. ILLEGAL/UNAUTHORIZED DUMPING
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

Anonymous complaint stated that Smith Oil dumped waste solvent into Kent Creek.

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: 87,584

IV. COMMENTS

V. SOURCES OF INFORMATION (Cite specific references, e.g., State Dept., Station Analysis, Reports)

U.S. Department of Commerce, 1991. Summary of Population and Housing characteristics, Illinois, 1990 census Population Housing. U.S. Geological Survey, 1967 and 1982. Topographic maps Rockford (North, South), Winnebago, Kishwaukee, IL 7.5 minute quadrangle.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
ILD 053 197547

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
<input type="checkbox"/> A. NPDES				
<input type="checkbox"/> B. UIC				
<input type="checkbox"/> C. AIR				
<input type="checkbox"/> D. RCRA				
<input type="checkbox"/> E. RCRA INTERIM STATUS				
<input type="checkbox"/> F. SPCC PLAN				
<input type="checkbox"/> G. STATE (Specify)				
<input type="checkbox"/> H. LOCAL (Specify)				
<input type="checkbox"/> I. OTHER (Specify)				
<input type="checkbox"/> J. NONE				

III. SITE DESCRIPTION

01 STORAGE/ DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE	04 TREATMENT (Check all that apply)	05 OTHER
<input type="checkbox"/> A. SURFACE IMPOUNDMENT			<input type="checkbox"/> A. INCINERATION	<input type="checkbox"/> A. BUILDINGS ON SITE
<input type="checkbox"/> B. PILES			<input type="checkbox"/> B. UNDERGROUND INJECTION	
<input type="checkbox"/> C. DRUMS, ABOVE GROUND	unknown		<input type="checkbox"/> C. CHEMICAL/ PHYSICAL	
<input type="checkbox"/> D. TANK, ABOVE GROUND	alleged		<input type="checkbox"/> D. BIOLOGICAL	
<input type="checkbox"/> E. TANK, BELOW GROUND			<input type="checkbox"/> E. WASTE OIL PROCESSING	
<input type="checkbox"/> F. LANDFILL			<input type="checkbox"/> F. SOLVENT RECOVERY	06 AREA OF SITE
<input type="checkbox"/> G. LANDFARM			<input type="checkbox"/> G. OTHER RECYCLING/ RECOVERY	5 Acres
<input type="checkbox"/> H. OPEN DUMP			<input type="checkbox"/> H. OTHER (Specify)	
<input type="checkbox"/> I. OTHER (Specify)				

07 COMMENTS

A leading TCE tank onsite is alleged. A tank farm on the west side of Kent Creek housed drums and tanks.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)
☐ A. ADEQUATE, SECURE ☐ B. MODERATE ☒ C. INADEQUATE, POOR ☐ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

Above ground tanks are not contained for any spills or mishandling.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☒ YES ☐ NO

02 COMMENTS

Certain sections of the site are fenced-off but the majority of the property remains assessable.

VI. SOURCES OF INFORMATION (Check all specific references, e.g., State files, laboratory analysis, records)

BVWS, 1993



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION
01 STATE 02 SITE NUMBER
ILD 1053 197547

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as appropriate)			02 STATUS			03 DISTANCE TO SITE	
	SURFACE	WELL	ENDANGERED	AFFECTED	MONITORED	A.	
COMMUNITY	A. <input type="checkbox"/>	B. <input checked="" type="checkbox"/>	A. <input type="checkbox"/>	B. <input type="checkbox"/>	C. <input checked="" type="checkbox"/>	1.2	(mi)
NON-COMMUNITY	C. <input type="checkbox"/>	D. <input checked="" type="checkbox"/>	D. <input type="checkbox"/>	E. <input type="checkbox"/>	F. <input type="checkbox"/>	0.3	(mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☐ A. ONLY SOURCE FOR DRINKING ☒ B. DRINKING
(Other sources available)
COMMERCIAL, INDUSTRIAL, IRRIGATION
(No other water sources available)

☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION
(Limited other sources available)

☐ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER	87,584	03 DISTANCE TO NEAREST DRINKING WATER WELL	0.3	(mi)
--------------------------------------	--------	--	-----	------

04 DEPTH TO GROUNDWATER	unknown	(ft)	05 DIRECTION OF GROUNDWATER FLOW	S-SF	06 DEPTH TO AQUIFER OF CONCERN	30	(ft)	07 POTENTIAL YIELD OF AQUIFER	unknown	(gpd)	08 SOLE SOURCE AQUIFER	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
-------------------------	---------	------	----------------------------------	------	--------------------------------	----	------	-------------------------------	---------	-------	------------------------	---

09 DESCRIPTION OF WELLS (including usage, depth, and location relative to population and buildings)

Area wells are for public and private use. These wells draw water from the glacial drift and ordovician aquifers.

10 RECHARGE AREA		11 DISCHARGE AREA	
<input type="checkbox"/> YES	COMMENTS	<input type="checkbox"/> YES	COMMENTS
<input checked="" type="checkbox"/> NO	unknown	<input checked="" type="checkbox"/> NO	unknown

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

☐ A. RESERVOIR, RECREATION DRINKING WATER SOURCE ☐ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES ☒ C. COMMERCIAL, INDUSTRIAL ☐ D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
Kent Creek	<input type="checkbox"/>	0.0 (mi)
Rock River	<input type="checkbox"/>	@2.0 (mi)
	<input type="checkbox"/>	

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN			02 DISTANCE TO NEAREST POPULATION
ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE	
A. 8795	B. 30570	C. 58756	0.25 (mi)
NO. OF PERSONS	NO. OF PERSONS	NO. OF PERSONS	

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE	04 DISTANCE TO NEAREST OFF-SITE BUILDING
unknown	0.25 (mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)

Site area is commercial/industrial, but it is surrounded by residential homes.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE | 02 SITE NUMBER

ILD 1053 197 547

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A. $10^{-6} - 10^{-8}$ cm/sec ☐ B. $10^{-4} - 10^{-6}$ cm/sec ☐ C. $10^{-2} - 10^{-3}$ cm/sec ☒ D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☐ A. IMPERMEABLE
(Less than 10^{-6} cm/sec)
☐ B. RELATIVELY IMPERMEABLE
($10^{-4} - 10^{-6}$ cm/sec)
☒ C. RELATIVELY PERMEABLE
($10^{-2} - 10^{-4}$ cm/sec)
☐ D. VERY PERMEABLE
(Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK

110 (ft)

04 DEPTH OF CONTAMINATED SOIL ZONE

unknown (ft)

05 SOIL pH

unknown

06 NET PRECIPITATION

3.34 (in)

07 ONE YEAR 24 HOUR RAINFALL

2.9 (in)

08 SLOPE

SITE SLOPE
varies %

DIRECTION OF SITE SLOPE
varies

TERRAIN AVERAGE SLOPE
unknown %

09 FLOOD POTENTIAL

SITE IS IN 100 YEAR FLOODPLAIN

☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE

OTHER

A. 1.0 (mi)

B. (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

1.2 (mi)

bearded

ENDANGERED SPECIES: upland sandpiper/wheat grass

13 LAND USE IN VICINITY

DISTANCE TO

COMMERCIAL/INDUSTRIAL

RESIDENTIAL AREAS; NATIONAL/STATE PARKS,
FORESTS, OR WILDLIFE RESERVES

AGRICULTURAL LANDS
PRIME AG LAND AG LAND

A. onsite (mi)

bordering

B. site (mi)

C. unknown (mi)

D. unknown (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

The site is located on flat terrain but slopes slightly towards Kent Creek on either side. Run-off from area around facility buildings drains into storm sewer catch basins.

VII. SOURCES OF INFORMATION (Cite specific references, e.g., State files, sample analysis, reports)

IL Dept. of Conservation. Letter of endangered species and habitat for Smith Oil, Winnebago, County, 1994.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
ILD 053 197 547

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER			
SURFACE WATER			
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL	4	TAL - Revet Environmental TCL - Chemtech Consulting Group	
VEGETATION			
OTHER Sediment	4	TAL - Revet Environmental TCL - Chemtech Consulting Group	

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
PID	Field screening instruments did not give readings above background.

IV. PHOTOGRAPHS AND MAPS

01 TYPE <input checked="" type="checkbox"/> GROUND <input type="checkbox"/> AERIAL	02 IN CUSTODY OF BVWS <small>Name of organization or individual</small>
03 MAPS <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	04 LOCATION OF MAPS SSI Report

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

VI. SOURCES OF INFORMATION (Cite specific references, e.g., State files, labore analysis, reports)

BVWS, 1993



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

II. CURRENT OWNER(S)

PARENT COMPANY (IF APPLICABLE)

01 NAME Rockford Park District	02 D+B NUMBER	03 NAME	04 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.) 1401 N. Second Street	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE
05 CITY Rockford	06 STATE IL	07 ZIP CODE 61107	12 CITY
01 NAME Premium Oil Company	02 D+B NUMBER	03 NAME	04 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.) 1102 Kilburn	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE
05 CITY Rockford	06 STATE IL	07 ZIP CODE 61101	12 CITY
01 NAME Dean Foods	02 D+B NUMBER	03 NAME	04 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE
05 CITY Rockford	06 STATE	07 ZIP CODE	12 CITY
01 NAME	02 D+B NUMBER	03 NAME	04 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	12 CITY

III. PREVIOUS OWNER(S) (List most recent first)

IV. REALTY OWNERS(S) (If applicable; list most recent first)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	05 CITY
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	05 CITY
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	05 CITY

V. SOURCES OF INFORMATION (Cite specific references, e.g., State files, company records, reports)



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION
01 STATE | 02 SITE NUMBER

II. CURRENT OPERATOR (Provide if different from owner)				OPERATOR'S PARENT COMPANY (If applicable)			
01 NAME Rockford Park District		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.) 1401 N. Second St.		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
05 CITY Rockford		06 STATE IL	07 ZIP CODE 61107	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION 13		09 NAME OF OWNER Mr. Rick Strader					
III. Current OPERATOR(S) (List most recent first; provide only if different from owner)				PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)			
01 NAME Premium Oil Company		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.) 1102 Kirtburn		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
05 CITY Rockford		06 STATE IL	07 ZIP CODE 61101	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION 13		09 NAME OF OWNER DURING THIS PERIOD Richard Fedeli					
01 NAME Dean Foods		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
05 CITY Rockford		06 STATE IL	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION 13		09 NAME OF OWNER DURING THIS PERIOD					
01 NAME		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					
IV. SOURCES OF INFORMATION (List specific references, e.g., State logs, sampling analysis, reports)							
Smith Oil Draft SSI Report, 1995 Letter from BVWS to Rockford Park District, August 18, 1993 Letter from BVWS to Smith Oil, April 28, 1993							



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION

01 STATE | 02 SITE NUMBER

II. ON-SITE GENERATOR

01 NAME	02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	
05 CITY	06 STATE 07 ZIP CODE	

III. OFF-SITE GENERATOR(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., State files, bottom analysis, reports)

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POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

II. PAST RESPONSE ACTIVITIES (Continued)

01 ☐ R. BARRIER WALLS CONSTRUCTED
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ S. CAPPING/COVERING
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ T. BULK TANKAGE REPAIRED
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ U. GROUT CURTAIN CONSTRUCTED
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ V. BOTTOM SEALED
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ W. GAS CONTROL
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ X. FIRE CONTROL
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ Y. LEACHATE TREATMENT
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ Z. AREA EVACUATED
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ 1. ACCESS TO SITE RESTRICTED
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ 2. POPULATION RELOCATED
04 DESCRIPTION

02 DATE

03 AGENCY

01 ☐ 3. OTHER REMEDIAL ACTIVITIES
04 DESCRIPTION

02 DATE

03 AGENCY

III. SOURCES OF INFORMATION (Cite specific references, e.g., State files, sampling reports, reports)



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION
01 STATE | 02 SITE NUMBER

II. PAST RESPONSE ACTIVITIES

01 <input type="checkbox"/> A. WATER SUPPLY CLOSED 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> B. TEMPORARY WATER SUPPLY PROVIDED 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> C. PERMANENT WATER SUPPLY PROVIDED 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> D. SPILLED MATERIAL REMOVED 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> E. CONTAMINATED SOIL REMOVED 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> F. WASTE REPACKAGED 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> G. WASTE DISPOSED ELSEWHERE 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> H. ON SITE BURIAL 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> I. IN SITU CHEMICAL TREATMENT 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> J. IN SITU BIOLOGICAL TREATMENT 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> K. IN SITU PHYSICAL TREATMENT 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> L. ENCAPSULATION 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> M. EMERGENCY WASTE TREATMENT 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> N. CUTOFF WALLS 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> O. EMERGENCY DIKING/SURFACE WATER DIVERSION 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> P. CUTOFF TRENCHES/SUMP 04 DESCRIPTION	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> Q. SUBSURFACE CUTOFF WALL 04 DESCRIPTION	02 DATE _____	03 AGENCY _____



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☐ YES ☐ NO

02 DESCRIPTION OF FEDERAL STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sampling analytical reports)

Appendix C

Smith Oil

Target Compound List and Target Analyte List

Target Compound List

Volatiles

Chloromethane	1,2-Dichloropropane
Bromomethane	Cis-1,3-Dichloropropene
Vinyl Chloride	Trichloroethene
Chloroethane	Dibromochloromethane
Methylene Chloride	1,1,2-Trichloroethane
Acetone	Benzene
Carbon Disulfide	trans-1,3-Dichloropropane
1,1-Dichloroethene	Bromoform
1,1-Dichloroethane	4-Methyl-2-pentanone
1,2-Dichloroethene (total)	2-Hexanone
Chloroform	Tetrachloroethene
1,2-Dichloroethane	Toluene
2-Butanone	1,1,2,2-Tetrachloroethane
1,1,1-Trichloroethane	Chlorobenzene
Carbon Tetrachloride	Ethyl benzene
Bromodichloromethane	Styrene
	Xylenes (total)

Source: Target Compound List for water and soil with low or medium levels of volatile and semi-volatile organic contaminants, as shown in the Quality Assurance Project Plan for Region V Superfund Site Assessment Program, ARCS V Contractor, September 27, 1991.

Target Compound List (Continued)

Semi-Volatiles

Phenol	Acenaphthene
bis(2-Chloroethyl) ether	2,4-Dinitrophenol
2-Chlorophenol	4-Nitrophenol
1,3-Dichlorobenzene	Dibenzofuran
1,4-Dichlorobenzene	2,4-Dinitrotoluene
1,2-Dichlorobenzene	Diethylphthalate
2-Methylphenol	4-Chlorophenyl-phenyl ether
2,2-oxybis-(1-Chloropropane)*	Fluroene
4-Methylphenol	4-Nitroaniline
N-Nitroso-di-n-dipropylamine	4,6-Dinitro-2-methylphenol
Hexachloroethane	N-Nitrosodiphenylamine
Nitrobenzene	4-Bromophenyl-phenyl ether
Isophorone	Hexachlorobenzene
2-Nitrophenol	Pentachlorophenol
2,4-Dimethylphenol	Phenanthrenel
bis(2-Chloroethoxy) methane	Anthracene
2,4-Dichlorophenol	Carbazole
1,2,4-Trichlorobenzene	Di-n-butylphthalate
Naphthalene	Fluoranthene
4-Chloroaniline	Pyrene
Hexachlorobutadiene	Butyl benzyl phthalate
4-Chloro-3-methylphenol	3,3-Dichlorbenzidine
2-Methylnaphthalene	Benzo(a)anthracene
Hexachlorocyclopentadiene	Chrysene
2,4,6-Trichlorophenol	bis(2-Ethylhexyl)phthalate
2,4,5-Trichlorophenol	Di-n-Octyphthalate
2-Chloronephthalene	Benzo(b)fluoranthene
2-Nitroaniline	Benzo(k)fluoranthene
Dimethylphthalate	Benzp(a)pyrene
Acenaphthylene	Indeno(1,2,3-cd)pyrene
2,6-Dinitrotoluene	Dibenzo(a,h)anthracene
3-Nitroaniline	Benzo(g,h,i)perylene

*Previously known by the name of bis(2-chlorousipropyl) ether.

Source: Target Compound List for water and soil with low or medium levels of volatile and semi-volatile organic contaminants, as shown in the Quality Assurance Project Plan for Region V Superfund Site Assessment Program, ARCS V Contractor, September 27, 1991.

Target Compound List (Continued)

Pesticide/PCB

alpha-BHC	4,4-DDT
beta-BHC	Methoxychlor
delta-BHC	Endrin ketone
gamma-BHC (Lindane)	Endrin aldehyde
Heptachlor	alpha-chlordane
Aldrin	gamma-chlordane
Heptachlor epoxide	Toxaphene
Endosulfan I	Aroclor-1016
Dieldrin	Aroclor-1221
4,4-DDE	Aroclor-1232
Endrin	Aroclor-1242
Endosulfan II	Aroclor-1248
4,4-DDD	Aroclor-1254
Endosulfan sulfate	Aroclor-1260

Source: Target Compound List for water and soil containing less than high concentrations of pesticides/aroclors, as shown in the Quality Assurance Project Plan for Region V Superfund Site Assessment Program, ARCS V Contractor, September 27, 1991.

Target Analyte List

Aluminum	Magnesium
Antimony	Manganese
Arsenic	Mercury
Barium	Nickel
Beryllium	Potassium
Cadmium	Selenium
Calcium	Silver
Chromium	Sodium
Cobalt	Thallium
Copper	Vanadium
Iron	Zinc
Lead	Cyanide

Source: Target Analyte List in the Quality Assurance Project Plan for Region V Superfund Site Assessment Program, ARCS V Contractor, September 27, 1991.

Appendix D
Smith Oil
Analytical Results

Appendix D Contents

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Data Qualifiers		
Analysis	Qualifier	Description
Organic	U	Compound was analyzed but not detected. The associated numerical value is the sample quantitation limit.
	J	An estimated value. This flag is used either when estimating a concentration for tentatively identified compounds (TICs) where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria with the result less than the sample quantitation limit but greater than zero.
	B	Reported value is less than the CRQL, but greater than the instrument detection limit.
	N	Indicates presumptive evidence of a compound. This flag is used only for TICs.
	A	Indicates that a TIC is a suspected aldol-condensation product.
	E	This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis. This flag will <u>not</u> apply to pesticides/PCBs analyzed by GC/EC methods.
	P	Indicates there is greater than 25 percent difference for detected concentrations between two gas chromatograph columns in pesticide/Arochlor analysis.
Inorganic	U	Compound was analyzed for but not detected. The associated numerical value is the sample quantitation limit.
	J	An estimated value.
	B	The reported value is less than the CRDL, but greater than or equal to the IDL.
	N	Spiked sample recovery not within control limits.
	W	Post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50 percent of spike absorbance.
	*	Duplicate analysis not within control limits.
	+	Correlation coefficient for the method of standard additions (MSA) is less than 0.995.
	S	The reported value was determined by the MSA.

Volatile Organic Analysis for Sediment Samples Smith Oil				
Volatile Compound	Sample Locations and Number / Concentration in ug/kg			
	ST01	ST02	ST03	ST04 Background
Chloromethane	14 U	13 U	14 U	13 U
Bromomethane	14 U	13 U	14 U	13 U
Vinyl Chloride	14 U	13 U	14 U	13 U
Chloroethane	14 U	13 U	14 U	13 U
Methylene Chloride	55	13 UJB	59	13 UBJ
Acetone	14 U	13 U	14 U	13 U
Carbon Disulfide	14 U	13 U	14 U	13 U
1,1-Dichloroethene	14 U	13 U	14 U	13 U
1,1-Dichloroethane	14 U	13 U	14 U	13 U
1,2-Dichloroethene (total)	14 U	13 U	14 U	13 U
Chloroform	14 U	13 U	14 U	13 U
1,2-Dichloroethane	14 U	13 U	14 U	13 U
2-Butanone	13 J	13 U	14 U	13 U
1,1,1-Trichloroethane	14 U	13 U	14 U	13 U
Carbon Tetrachloride	14 U	13 U	14 U	13 U
Bromodichloromethane	14 U	13 U	14 U	13 U
1,2-Dichloropropane	14 U	13 U	14 U	13 U
cis-1,3-Dichloropropene	14 U	13 U	14 U	13 U
Trichloroethene	14 U	13 U	3 J	2 J
Dibromochloromethane	14 U	13 U	14 U	13 U
1,1,2-Trichloroethane	14 U	13 U	14 U	13 U
Benzene	3 J	13 U	14 U	13 U
trans-1,3-Dichloropropene	14 U	13 U	14 U	13 U
Bromoform	14 U	13 U	14 U	13 U
4-Methyl-2-Pentanone	14 U	13 U	14 U	13 U
2-Hexanone	14 U	13 U	14 U	13 U
Tetrachloroethene	14 U	13 U	14 U	13 U
1,1,2,2-Tetrachloroethane	14 U	13 U	14 U	13 U
Toluene	14 U	13 U	14 U	13 U
Chlorobenzene	14 U	13 U	14 U	13 U
Ethylbenzene	14 U	13 U	14 U	13 U
Styrene	14 U	13 U	14 U	13 U
Xylene (total)	14 U	13 U	14 U	13 U
Total Number of TICS *	12	1	1	1

* Number, not concentrations, of tentatively identified compounds (TICS).

sed-vol

Semi-volatile Organic Analysis for Sediment Samples Smith Oil				
Semi-Volatile Compound	Sample Location and Number / Concentrations in ug/kg			
	ST01	ST02	ST03	ST04 Background
Phenol	470 U	430 U	470 U	450 U
bis(2-Chloroethyl)Ether	470 U	430 U	470 U	450 U
2-Chlorophenol	470 U	430 U	470 U	450 U
1,3-Dichlorobenzene	470 U	430 U	470 U	450 U
1,4-Dichlorobenzene	470 U	430 U	470 U	450 U
1,2-Dichlorobenzene	470 U	430 U	470 U	450 U
2-Methylphenol	470 U	430 U	470 U	450 U
2,2'-oxybis(1-Chloropropane)	470 U	430 U	470 U	450 U
4-Methylphenol	470 U	430 U	17 J	450 U
n-Nitroso-Di-n-Propylamine	470 U	430 U	470 U	450 U
Hexachloroethane	470 U	430 U	470 U	450 U
Nitrobenzene	470 U	430 U	470 U	450 U
Isophorone	470 U	430 U	470 U	450 U
2-Nitrophenol	470 U	430 U	470 U	450 U
2,4-Dimethylphenol	470 U	430 U	470 U	450 U
bis(2-Chloroethoxy)Methane	470 U	430 U	470 U	450 U
2,4-Dichlorophenol	470 U	430 U	470 U	450 U
1,2,4-Trichlorobenzene	470 U	430 U	470 U	450 U
Naphthalene	110 J	430 U	470 U	450 U
4-Chloroaniline	470 U	430 U	470 U	450 U
Hexachlorobutadiene	470 U	430 U	470 U	450 U
4-Chloro-3-Methylphenol	470 UJ	430 U	470 U	450 U
2-Methylnaphthalene	77 J	430 U	470 U	450 U
Hexachlorocyclopentadiene	470 U	430 U	470 U	450 U
2,4,6-Trichlorophenol	470 U	430 U	470 U	450 U
2,4,5-Trichlorophenol	1100 U	1000 U	1100 U	1100 U
2-Chloronaphthalene	470 U	430 U	470 U	450 U
2-Nitroaniline	1100 U	1000 U	1100 U	1100 U
Dimethyl Phthalate	470 U	430 U	470 J	450 U
Acenaphthylene	470 UJ	430 U	19 J	450 U
2,6-Dinitrotoluene	470 U	430 U	470 U	450 U
3-Nitroaniline	1100 U	1000 U	1100 U	1100 U
Acenaphthene	520	27 J	62 J	450 U
2,4-Dinitrophenol	1100 UJ	1000 UJ	1100 UJ	1100 UJ
4-Nitrophenol	1100 UJ	1000 U	1100 U	1100 U
Dibenzofuran	300 J	430 U	430 J	450 U
2,4-Dinitrotoluene	470 UJ	430 U	470 U	450 U
Diethylphthalate	470 U	430 U	470 U	450 U
4-Chlorophenyl-phenylether	470 U	430 U	470 U	450 U
Fluorene	700	45 J	99 J	450 U
4-Nitroaniline	1100 U	1000 U	1100 U	1100 U
4,6-Dinitro-2-Methylphenol	1100 UJ	1000 UJ	1100 U	1100 UJ
n-Nitrosodiphenylamine	470 U	430 U	470 U	450 U
4-Bromophenyl-phenylether	470 U	430 U	470 U	450 U

Semi-volatile Organic Analysis for Sediment Samples
Smith Oil

Semi-Volatile Compound	Sample Location and Number / Concentrations in ug/kg			
	ST01	ST02	ST03	ST04 Background
Hexachlorobenzene	470 U	430 U	470 U	450 U
Pentachlorophenol	1100 U	1000 U	1100 U	1100 U
Phenanthrene	5400 D	510	1200	290 J
Anthracene	1200	94 J	180 J	43 J
Carbazole	780	64 J	190 J	37 J
di-n-Butylphthalate	210 J	23 J	67 J	450 U
Fluoranthene	8500 D	1100	2600	720
Pyrene	5900 D	860	1500	510
Butylbenzylphthalate	470 UJ	320 J	140 J	34 J
3,3'-Dichlorobenzidine	470 U	430 U	470 UJ	450 U
Benzo(a)Anthracene	3200	410 J	880	270 J
Chrysene	3200	500	1100	370 J
bis(2-Ethylhexyl)Phthalate	1300 J	250 J	730 J	600 J
di-n-Octyl Phthalate	35 J	430 UJ	36 J	450 UJ
Benzo(b)Fluoranthene	2400	360 J	860	250 J
Benzo(k)Fluoranthene	2900	410 J	1100	360 J
Benzo(a)Pyrene	2800	380 J	910	290 J
Indeno(1,2,3-cd)Pyrene	1000	230 J	430 J	150 J
Dibenzo(a,h)Anthracene	260 J	83 J	110 J	450 U
Benzo(g,h,i)Perylene	940	220 J	440 J	140 J
Total Number of TICs	21	16	17	16

sedim-sv

Pesticide/PCB Analysis for Sediment Samples Smith Oil				
Pesticide/ PCB	Sample Location and Number / Concentrations in ug/kg			
	ST01	ST02	ST03	ST04 Background
Alpha-BHC	2.5 UJ	2.3 UJ	2.4 UJ	2.3 UJ
Beta-BHC	7.3 J	0.62 JP	2.3 JP	0.65 JP
Delta-BHC	1.6 JP	0.59 JP	1.6 JP	0.95 JP
Gamma-BHC (Lind.)	2.5 UJ	2.3 UJ	2.4 UJ	2.3 UJ
Heptachlor	2.5 UJ	2.3 UJ	0.33 JP	2.3 UJ
Aldrin	3.7 JP	0.77 J	2.2 JP	0.87 JP
Heptachlor Epoxide	1.6 JP	0.47 JP	1.3 JP	0.73 JP
Endosulfan I	2.5 UJ	2.3 UJ	2.4 UJ	2.3 UJ
Dieldrin	1.2 JP	0.94 JP	4.8 J	1.6 J
4,4'-DDE	4.6 JP	1.3 JP	3.8 JP	2.0 JP
Endrin	4.8 UJ	4.4 UJ	4.7 UJ	4.5 UJ
Endosulfan II	4.8 UJ	4.4 UJ	4.7 UJ	4.5 UJ
4,4'-DDD	2.4 JP	0.96 J	2.1 J	1.1 J
Endosulfan Sulfate	4.8 UJ	4.4 UJ	4.7 UJ	4.5 UJ
4,4'-DDT	5.7 J	1.3 J	8.6 J	1.5 JP
Methoxychlor	9.1 UJBP	23 UJ	4.0 UJBP	23 UJ
Endrin Ketone	4.8 UJ	4.4 UJ	4.7 UJ	0.96 JP
Endrin Aldehyde	2.5 JP	1.3 UJ	1.4 JP	3.9 JP
Alpha-Chlordane	2.5 UJ	2.3 UJ	2.4 UJ	2.3 UJ
Gamma-Chlordane	5.2 J	2.7 J	6.4 J	2.7 J
Toxaphene	250 UJ	230 UJ	240 UJ	230 UJ
Aroclor-1016	48 UJ	44 UJ	47 UJ	45 UJ
Aroclor-1221	97 UJ	89 UJ	95 UJ	90 UJ
Aroclor-1232	48 UJ	44 UJ	47 UJ	45 UJ
Aroclor-1242	48 UJ	44 UJ	47 UJ	45 UJ
Aroclor-1248	48 UJ	44 UJ	47 UJ	45 UJ
Aroclor-1254	48 UJ	44 UJ	47 UJ	45 UJ
Aroclor-1260	48 UJ	44 UJ	47 UJ	45 UJ

Inorganic Analysis for Sediment Samples
Smith Oil

Metals and Cyanide	Sample Location and Number		
	Concentrations in mg/kg		
	ST01 Background	ST02	ST04
Aluminum	1530	1150	6210
Antimony	12.4 U	11.9 U	13.0 U
Arsenic	1.4 JBW	2.1 B	8.7
Barium	16.8 B	11.0 B	47.6 B
Beryllium	0.27 U	0.26 U	0.61 B
Cadmium	1.1 U	1.0 U	1.1 U
Calcium	28000	22500	17800
Chromium	6.0	5.1	13.5
Cobalt	1.9 U	1.8 U	3.5 B
Copper	12.2	23.2	24.4
Iron	3650	3240	8780
Lead	15.1 JNS	12.0 JN	43.1 JNS
Magnesium	14700	12300	9590
Manganese	78	123	172
Mercury	0.14 U	0.30	0.14 U
Nickel	5.1 U	4.9 U	8.3 B
Potassium	224 B	174 B	953 B
Selenium	0.81 U	0.78 U	8.5 UWJ
Silver	1.9 U	1.8 UJ	2.0 U
Sodium	166 JB	152 B	196 JB
Thallium	0.27 U	0.26 U	0.28 U
Vanadium	7.7 B	7.0 B	16.8
Zinc	63.6	45.7	95.3
Cyanide	1.3 U	1.3 U	1.4 U

sedmetal

Semi-volatile Organic Analysis for Soil Samples Smith Oil					
Semi-volatile Compound	Sample Location and Number / Concentrations in ug/kg				
	SS01 Background	SS02	SS04	SS05	SS06
Phenol	420 U	370 U	370 U	370 U	350 U
bis(2-Chloroethyl)Ether	420 U	370 U	370 U	370 U	350 U
2-Chlorophenol	420 U	370 U	370 U	370 U	350 U
1,3-Dichlorobenzene	420 U	370 U	370 U	370 U	350 U
1,4-Dichlorobenzene	420 U	370 U	370 U	370 U	350 U
1,2-Dichlorobenzene	420 U	370 U	370 U	80 U	60 J
2-Methylphenol	420 U	370 U	370 U	370 U	350 U
2,2'-oxybis(1-Chloropropane)	420 U	370 U	370 U	370 U	350 U
4-Methylphenol	420 U	370 U	370 U	370 U	350 U
n-Nitroso-Di-n-Propylamine	420 U	370 U	370 U	370 U	350 U
Hexachloroethane	420 U	370 U	370 U	370 U	350 U
Nitrobenzene	420 U	370 U	370 U	370 U	350 U
Isophorone	420 U	370 U	370 U	370 U	350 U
2-Nitrophenol	420 U	370 U	370 U	370 U	350 U
2,4-Dimethylphenol	420 U	370 U	370 U	370 U	350 U
bis(2-Chloroethoxy)Methane	420 U	370 U	370 U	370 U	350 U
2,4-Dichlorophenol	420 U	370 U	370 U	370 U	350 U
1,2,4-Trichlorobenzene	420 U	370 U	370 U	370 U	350 U
Naphthalene	420 U	370 U	370 U	370 U	350 U
4-Chloroaniline	420 U	370 U	370 U	370 U	350 U
Hexachlorobutadiene	420 U	370 U	370 U	370 U	350 U
4-Chloro-3-Methylphenol	420 U	370 U	370 U	370 U	350 U
2-Methylnaphthalene	420 U	370 U	370 U	370 U	350 U
Hexachlorocyclopentadiene	420 U	370 U	370 U	370 U	350 U
2,4,6-Trichlorophenol	420 U	370 U	370 U	370 U	350 U
2,4,5-Trichlorophenol	1000 U	920 U	920 U	920 U	880 U
2-Chloronaphthalene	420 U	370 U	370 U	370 U	350 U
2-Nitroaniline	1000 U	920 U	920 U	920 U	880 U
Dimethyl Phthalate	420 U	370 U	370 U	370 U	350 U
Acenaphthylene	420 U	370 U	370 U	370 U	350 U
2,6-Dinitrotoluene	420 U	370 U	370 U	370 U	350 U
3-Nitroaniline	1000 U	920 U	920 U	920 U	880 U
Acenaphthene	420 U	370 U	370 U	370 U	82 J
2,4-Dinitrophenol	1000 U	920 U	920 U	920 U	880 U
4-Nitrophenol	1000 U	920 U	920 U	920 U	880 U
Dibenzofuran	420 U	370 U	370 U	370 U	51 J
2,4-Dinitrotoluene	420 U	370 U	370 U	370 U	350 U
Diethylphthalate	420 U	370 U	370 U	370 U	350 U
4-Chlorophenyl-phenylether	420 U	370 U	370 U	370 U	350 U
Fluorene	420 U	370 U	370 U	370 U	120 J
4-Nitroaniline	1000 U	920 U	920 U	920 U	880 U
4,6-Dinitro-2-Methylphenol	1000 U	920 U	920 U	920 U	880 U
n-Nitrosodiphenylamine	420 U	370 U	370 U	370 U	350 U
4-Bromophenyl-phenylether	420 U	370 U	370 U	370 U	350 U
Hexachlorobenzene	420 U	370 U	370 U	370 U	350 U
Pentachlorophenol	1000 U	920 U	920 U	920 U	880 U

Semi-volatile Organic Analysis for Soil Samples Smith Oil					
Semi-volatile Compound	Sample Location and Number / Concentrations in ug/kg				
	SS01 Background	SS02	SS04	SS05	SS06
Phenanthrene	45 U	80 U	120 U	83 J	1400
Anthracene	420 U	370 U	370 U	370 U	290 J
Carbazole	420 U	370 U	370 U	370 U	190 J
di-n-Butylphthalate	56 U	370 U	370 U	370 U	38 J
Fluoranthene	100 U	200 U	170 U	180 J	2400
Pyrene	86 U	170 U	150 U	160 J	2100
Butylbenzylphthalate	420 U	370 U	370 U	370 U	80 J
3,3'-Dichlorobenzidine	420 U	370 U	370 U	370 U	350 U
Benzo(a)Anthracene	42 U	86 U	81 U	80 J	990
Chrysene	63 U	110 U	100 U	110 J	1200
bis(2-Ethylhexyl)Phthalate	120 U	370 U	370 U	52 J	160 J
di-n-Octyl Phthalate	420 U	370 U	370 U	370 U	350 U
Benzo(b)Fluoranthene	78 U	120 U	120 U	140 J	1300
Benzo(k)Fluoranthene	420 U	42 U	42 U	43 J	430
Benzo(a)Pyrene	43 U	84 U	78 U	84 J	860
Indeno(1,2,3-cd)Pyrene	420 U	50 U	48 U	49 J	410
Dibenzo(a,h)Anthracene	420 U	370 U	370 U	370 U	130 J
Benzo(g,h,i)Perylene	420 U	45 U	44 U	47 J	330 J
Total Number of TICs	21	17	21	21	21

soil-sv

Pesticide/PCB Analysis for Soil Samples Smith Oil					
Pesticide/ PCB	Sample Location and Number Concentrations in ug/kg				
	SS01 Background	SS02	SS04	SS05	SS06
Alpha-BHC	2.1 U	1.9 U	1.9 U	1.9 U	1.8 U
Beta-BHC	2.1 U	1.9 U	1.9 U	1.9 U	1.8 U
Delta-BHC	2.1 U	1.9 U	1.9 U	1.9 U	1.8 U
Gamma-BHC (Lindane)	2.1 U	1.9 U	1.9 U	1.9 U	1.8 U
Heptachlor	2.1 U	1.9 U	1.9 U	1.9 U	1.8 U
Aldrin	2.1 U	2.0	1.9 U	1.9 U	1.8 U
Heptachlor Epoxide	2.1 U	1.9 U	1.9 U	1.9 U	1.0 J
Endosulfan I	2.1 U	1.9 U	1.9 U	1.9 U	1.8 U
Dieldrin	4.2 U	3.6 U	3.6 U	3.7 U	3.5 U
4,4'-DDE	4.2 U	3.6 U	3.6 U	3.7 U	3.5 U
Endrin	4.2 U	3.6 U	3.6 U	3.7 U	3.5 U
Endosulfan II	4.2 U	3.6 U	3.6 U	3.7 U	3.5 U
4,4'-DDD	4.2 U	22 P	3.6 U	3.7 U	3.5 U
Endosulfan Sulfate	4.2 U	3.6 U	3.6 U	3.7 U	3.5 U
4,4'-DDT	4.2 U	13 P	1.8 U	3.7 U	3.5 U
Methoxychlor	21 U	19 U	19 U	19 U	18 U
Endrin Ketone	4.2 U	3.6 U	3.6 U	3.7 U	3.5 U
Endrin Aldehyde	4.2 U	3.6 U	3.6 U	3.7 U	3.5 U
Alpha-Chlordane	2.1 U	57 EP	1.9 U	1.9 U	1.2 JP
Gamma-Chlordane	2.1 U	43 EP	1.9 U	1.9 U	2.4 P
Toxaphene	210 U	190 U	190 U	190 U	180 U
Aroclor-1016	42 U	36 U	36 U	37 U	35 U
Aroclor-1221	84 U	74 U	36 U	74 U	71 U
Aroclor-1232	42 U	36 U	36 U	37 U	35 U
Aroclor-1242	42 U	36 U	36 U	37 U	35 U
Aroclor-1248	42 U	36 U	36 U	37 U	35 U
Aroclor-1254	42 U	36 U	36 U	37 U	35 U
Aroclor-1260	42 U	36 U	36 U	37 U	35 U

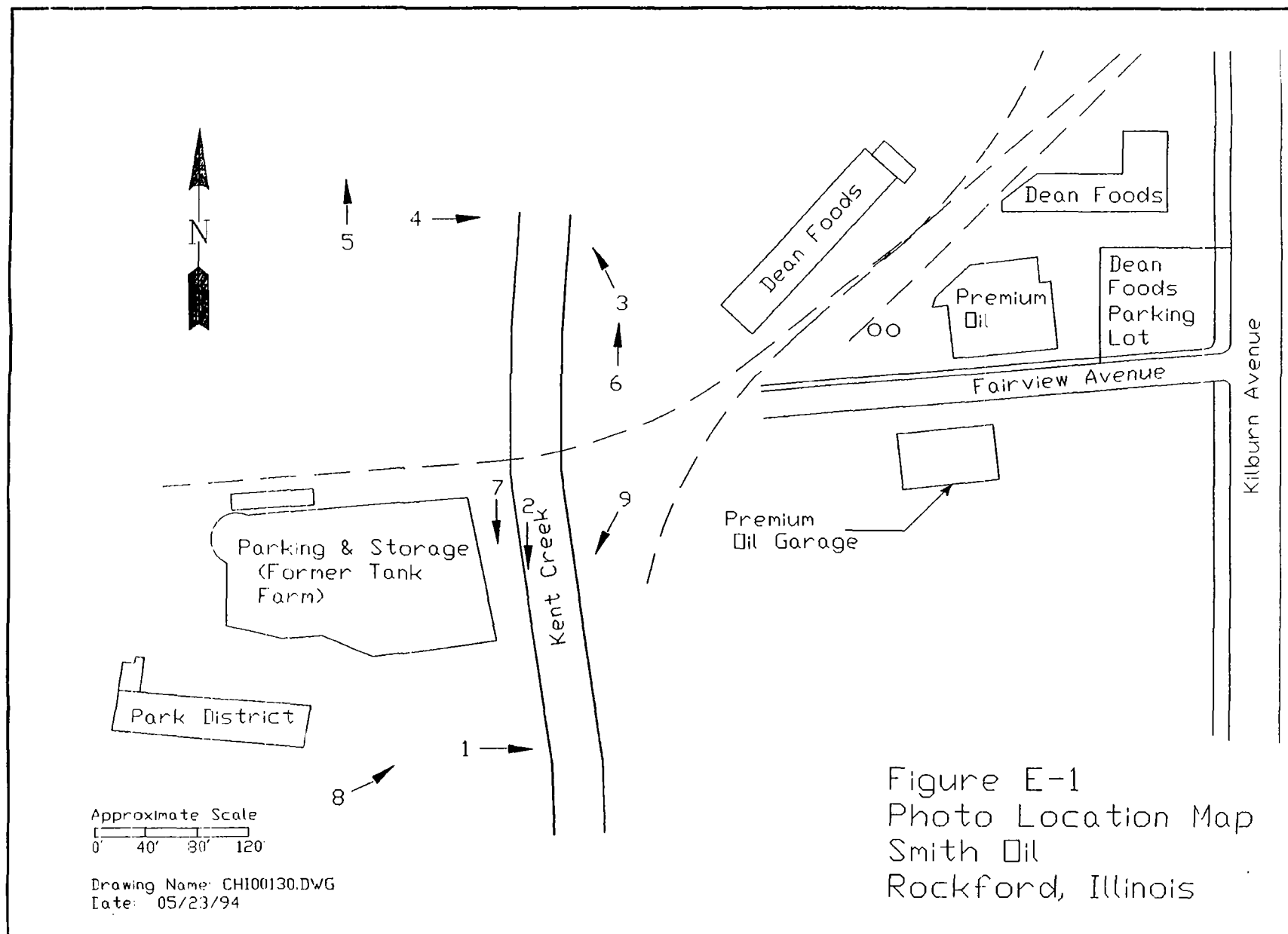
Pestsoil

Inorganic Analysis for Soil Samples
Smith Oil

Metals and Cyanide	Sample Locations and Number Concentrations in mg/kg				
	SS01 Background	SS02	SS04	SS05	SS06
Aluminum	3840	1740	2070	2710	1460
Antimony	15.3 UJN	12.9 UJN	12.0 UJN	10.6 JN	12.4 UJN
Arsenic	3.2	1.3 UJW	1.3 JW	4.8	1.3 UJW
Barium	115	27.6 B	40.3	30.9 B	17.6 B
Beryllium	0.51 U	0.43 U	0.40 U	0.35 U	0.41 U
Cadmium	0.76 B	0.43 U	0.40 U	0.35 B	0.41 B
Calcium	2640 J	15900 J	21500 J	18900 J	24600 J
Chromium	10.2	6.0	5.8	9.8	5.2
Cobalt	5.1 B	1.5 B	1.8 B	2.7 B	1.7 B
Copper	33.3 J*	5.4 J*	6.2 J*	8.3 J*	6.4 J*
Iron	6430	4620	4080	4910	3260
Lead	67.2 J	28.2 J	46.0 J	37.5 J	15.1 J
Magnesium	1210 B	9450	11700	10300	12700
Manganese	822	79.7	131	165	130
Mercury	0.13 J	0.16 J	0.05 JB	0.23 J	0.16 J
Nickel	6.6	3.4 B	3.4 B	5.1 B	3.5 B
Potassium	1280 U	909 UB	746 UB	857 U	728 UB
Selenium	1.3	1.1 U	1.1 U	1.1 U	1.1 U
Silver	1.5	1.3 U	1.2 U	1.1 U	1.2 U
Sodium	39.4 B	135 B	67.2 B	46.8 B	47.2 B
Thallium	1.3 UJW	1.1 UJW	1.1 UJW	1.1 U	1.1 UJW
Vanadium	12.0 B	7.9 B	7.0 B	8.3 B	5.4 B
Zinc	69.2 JN	39.6 JN	49.1 JN	63.9 JN	41.4 JN
Cyanide	0.64	0.55 U	0.54 U	0.58 U	0.53 U

soilmel

Appendix E
Smith Oil
Site Photographs



Date: 10/19/93

Time: 1240

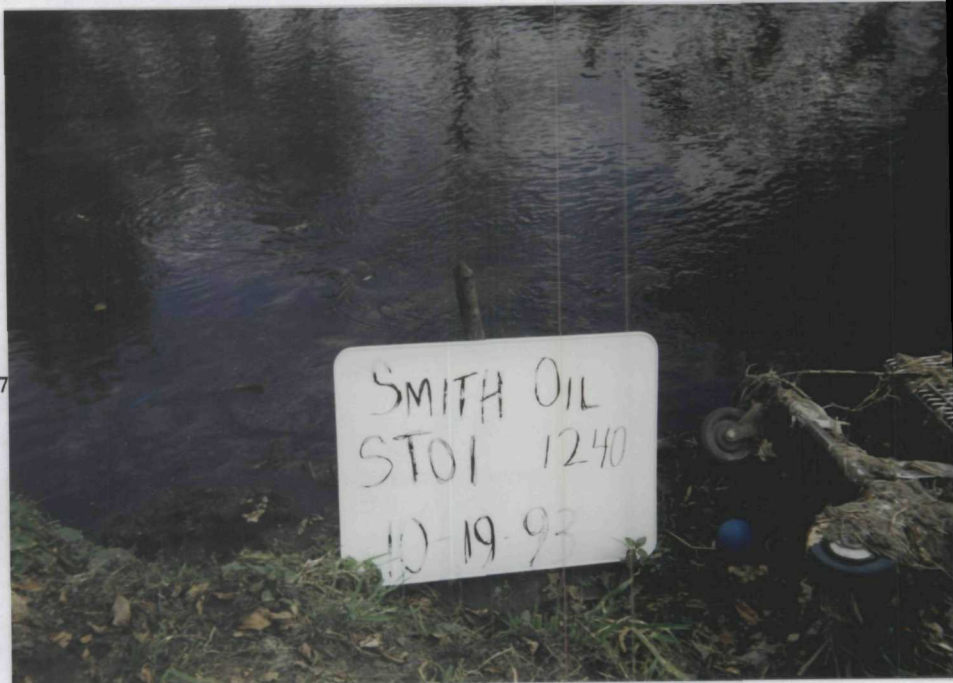
Photo Taken By: R. Reints

Photo Number: 1

Location/ILD #: Smith Oil ILD 053 197 547

Direction of Photo: East

Description: View of ST01 sample location. Sample taken from the west bank of Kent Creek at southeast corner of park district property.



Date: 10/19/93

Time: 1140

Photo Taken By: R. Reints

Photo Number: 2

Location/ILD #: Smith Oil ILD 053 197 547

Direction of Photo: South

Description: View of ST02 sample location. Sample collected on the west bank of Kent Creek approximately 30 feet south of the Fairview Ave. bridge.



Date: 10/19/93

Time: 1425

Photo Taken By: R. Reints

Photo Number: 3

Location/ILD #: Smith Oil ILD 053 197 547

Direction of Photo: Northwest

Description: View of ST03 sample location. Sample collected from the east bank of Kent Creek opposite the oil warehouse, about 100 feet north of the Fairview Ave. bridge.



Date: 10/19/93

Time: 1200

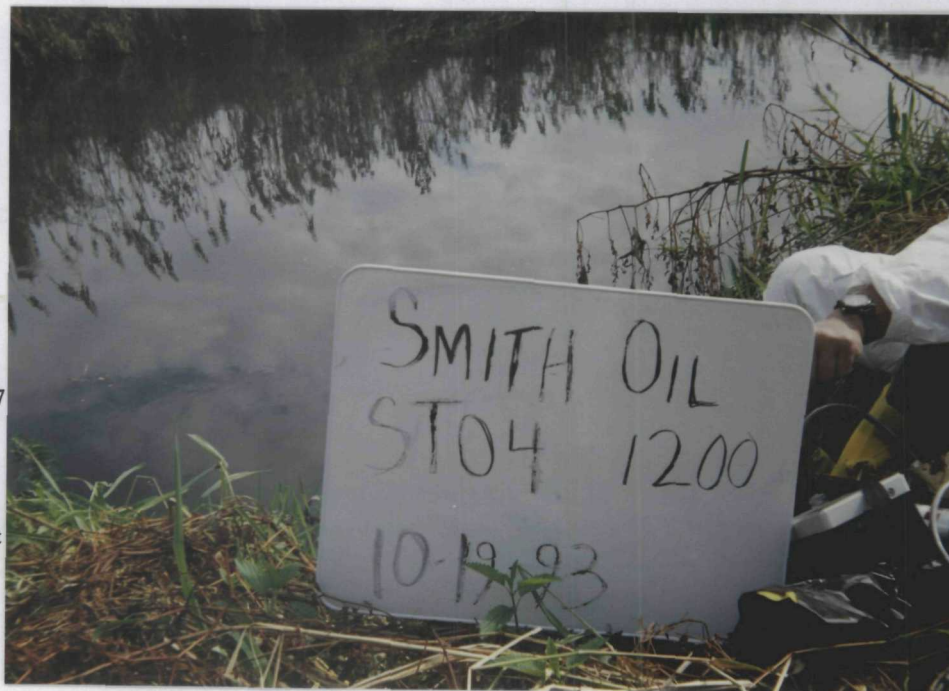
Photo Taken By: R. Reints

Photo Number: 4

Location/ILD #: Smith Oil ILD 053 197 547

Direction of Photo: East

Description: View of ST04 sample location. Sample collected from the west bank of Kent Creek, about 250 feet north of the Fairview Ave. bridge.



Date: 10/19/93

Time: 1350

Photo Taken By: R. Reints

Photo Number: 5

Location/ILD #: Smith Oil ILD 053 197 547

Direction of Photo: North

Description: View of SS01 sample location. Sample collected about 200 feet west of a paved bike path that parallels Kent Creek.



Date: 10/19/93

Time: 1415

Photo Taken By: R. Reints

Photo Number: 6

Location/ILD #: Smith Oil ILD 053 197 547

Direction of Photo: North

Description: View of SS02 sample location. Sample collected about 40 feet east of Kent Creek opposite the oil warehouse.



Date: 10/19/93

Time: 1310

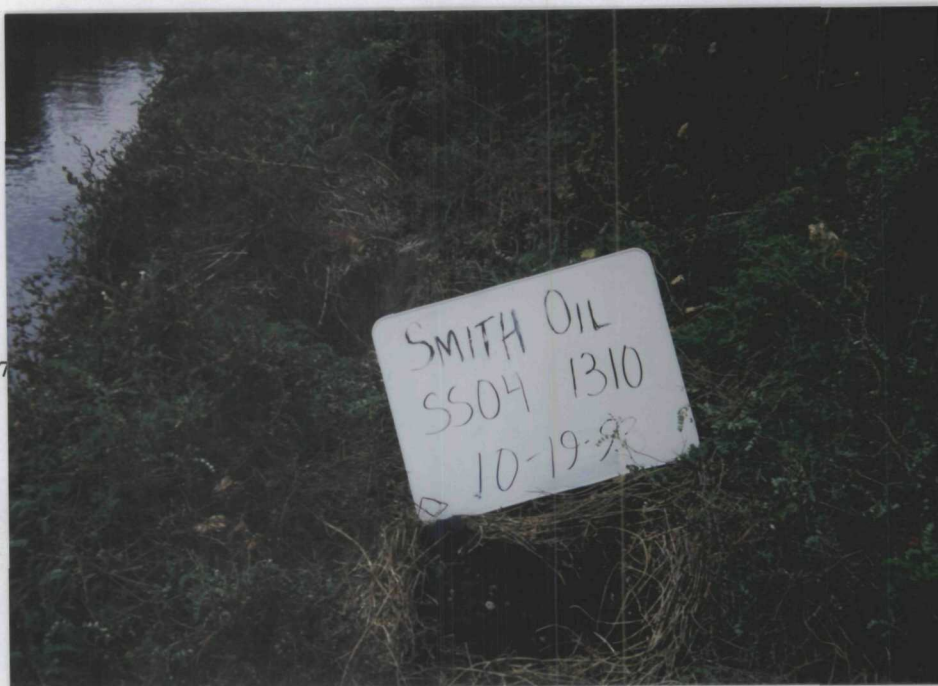
Photo Taken By: R. Reints

Photo Number: 7

Location/ILD #: Smith Oil ILD 053 197 547

Direction of Photo: South

Description: View of SS04 sample location. Sample collected about 80 feet south of the park district bridge and 2 feet west of Kent Creek.



Date: 10/19/93

Time: 1255

Photo Taken By: R. Reints

Photo Number: 8

Location/ILD #: Smith Oil ILD 053 197 547

Direction of Photo: Northeast

Description: View of SS05 sample location. Sample collected about 50 feet north of park district south boundary and three feet west of Kent Creek.



Date: 10/19/93

Time: 1450

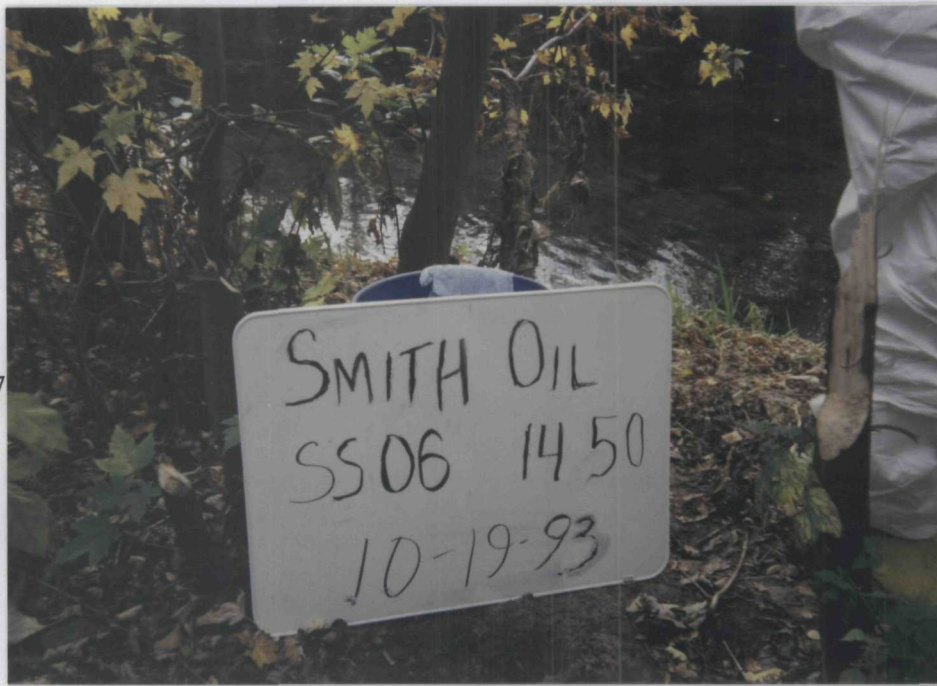
Photo Taken By: R. Reints

Photo Number: 9

Location/ILD #: Smith Oil ILD 053 197 547

Direction of Photo: Southwest

Description: View of SS06 sample location. Sample collected five feet east of Kent Creek and about 130 feet south of park district bridge.



Appendix F

Smith Oil (AKA Premium Oil)

Representative Well Logs

White Copy -
Ill. Dept. of Pub. Health
Yellow Copy -
Blue Copy - Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED. AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, ROOM 616, STATE OFFICE BUILDING, SPRINGFIELD, ILLINOIS, 62705. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1. Type of Well

- a. Dug _____ Bored _____ Hole Diam. _____ in. Depth _____ ft.
Curb material _____ Burled Slab: Yes _____ No _____
- b. Driven _____ Drive Pipe Diam. _____ in. Depth _____ ft.
- c. Drilled X Finished in Drift _____ In Rock X _____
Tubular _____ Gravel Packed _____
- d. Grout:

(KIND)	FROM (FT.)	TO (FT.)
Drill Cuttings	0	38

2. Distance to Nearest:

Building 5 Ft. Seepage Tile Field 75
Cess Pool none Sewer (non Cast iron) none
Privy none Sewer (Cast iron) none
Septic Tank 50 Barnyard none
Leaching Pit none Manure Pile none

3. Is water from this well to be used for human consumption?

Yes X No _____

4. Date well completed 4/19/71

5. Permanent Pump Installed? Yes X No _____
Manufacturer Fairbanks Morse Type Sub.
Capacity 20 gpm. Depth of setting 70 ft.

6. Well Top Sealed? Yes X No _____

7. Pitless Adaptor Installed? Yes X No _____

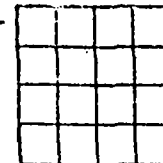
8. Well Disinfected? Yes X No _____

9. Water Sample Submitted? Yes _____ No X

REMARKS:

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Bill Lawson Well No. 145-71-15
Address 3107 Elinore, Rockford, Ill.
Driller Olsen Well & Pump Co. License No. 92-424
11. Permit No. 12154 Date 4/14/71
12. Water from Dolomite Formation at depth 50 to 100 ft. Sec. 10
13. County Winnebago Twp. 44N
Screen: Diam. _____ in. Rge. 1E
Length: _____ ft. Slot: _____ Elev. _____



SHOW
LOCATION IN
SECTION PLAT

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5	Steel 15.00	0	38

16. Size Hole below casing: 5 in.

17. Static level 30 ft. below casing top which is 2 ft. above ground level. Pumping level 35 ft. when pumping at 20 gpm for 1 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Top Soil	2'	2'
Clay-Gravel	5	7
Sand & Gravel	31	38
Limestone	12	50
Dolomite	50	100

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Robert C. Olsen DATE 4/20/71

White Pink Copies:
Ill. Dept. of Public Health
Yellow Copy: Well Contractor
Golden Copy: Well Owner

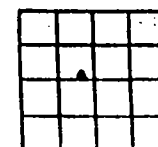
Well Construction Report

THIS FORM MUST BE COMPLETED WITHIN 30 DAYS
OF WELL COMPLETION AND SENT TO
THE ILLINOIS DEPARTMENT OF PUBLIC HEALTH
DIVISION OF ENVIRONMENTAL HEALTH
525 WEST JEFFERSON STREET
SPRINGFIELD, ILLINOIS 62761

GEOLOGICAL AND WATER SURVEYS WELL RECORD

9. Driller Melvin McKinney License No. 092-00481
10. Well Site Address 2810 Vinton
11. Property Owner Henry Spohnholz Well No. _____
12. Permit No. WINN 6381 Date Issued 11-22-89
13. Location: Rockford County WINN

Sec. 10
Twp. 44N
Rge. 01E



Show location
in section
plat

No Log

1. Type of Well

- a. Bored _____ Hole Diam. _____ in. Depth _____ ft
Buried Slab: Yes _____ No _____
b. Driven _____ Drive Pipe Diam. _____ in. Depth _____ ft
c. Drilled X Finished in Drift _____ In Rock X

(KIND)	FROM (Ft.)	TO (Ft.)
d. Grout: <u>drill cutting</u>	<u>0</u>	<u>40</u>

2. Well furnishes water for human consumption? Yes X No _____
3. Date well drilled 11-25-89
4. Permanent pump installed? Yes X Date 11-25-89 No _____
Manufacturer Armstrong Type _____
Location in well
Capacity 10 gpm. Depth of setting 100 ft.
5. Well top sealed? Yes X No _____ Type well cap
6. Pitless adapter installed? Yes X No _____
Manufacturer Martinson Model No. PB10
How attached to casing? Drilled & Bolted
7. Well disinfected? Yes X No _____
8. Pump and equipment disinfected Yes X No _____

IMPORTANT NOTICE

This State Agency is requesting disclosure of information that is necessary to accomplish the statutory purposes as outlined under Public Act 85-0863. Disclosure of this information is mandatory. This form has been approved by the Forms Management Center.

PRESS FIRMLY WITH BLACK PEN OR TYPE
Do Not Use Felt Pen

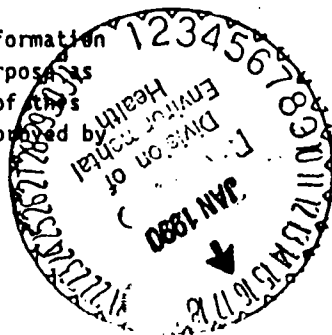
14. Water from <u>rock</u>	at depth <u>60</u> ft
15. Casing and Liner Pipe	to <u>125</u> ft
Diam. (in) Kind and Weight	From (ft) To (ft)
<u>6" PVC shg 80</u>	<u>0 40</u>

16. Screen: Diam. _____ in, Length _____ in, Slot Size _____
17. Size hole below casing 6 in. 18. Ground Elev. 8" ft msl
19. Static level 70 ft below casing top which is 8" ft. above ground level. Pumping level 85 ft, pumping gpm for 24 hour:

20. Earth Materials Passed Through	Depth of Top	Depth of Bottom
<u>top soil</u>	<u>0</u>	<u>2'</u>
<u>red clay</u>	<u>2'</u>	<u>9'</u>
<u>yellow lime stone</u>	<u>9'</u>	<u>65'</u>
<u>gray lime stone</u>	<u>65'</u>	<u>125'</u>

Continue on separate sheet if necessary.

Signed A. Gordon 11-30-89



Copy -
Ill. Dept. of Public Health
Yellow Copy - Well Contractor
Blue Copy - Well Owner

INSTRUCT 1 TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, ROOM 616, STATE OFFICE BUILDING, SPRINGFIELD, ILLINOIS, 62706. DO NOT DETACH GEOLOGICAL / WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1. Type of Well

- a. Dug ☐ Bored ☐ Hole Diam. in. Depth ft.
Curb material Burled Slab: Yes ☐ No ☐
b. Driven ☐ Drive Pipe Diam. in. Depth ft.
c. Drilled ☒ Finished in Drift ☒ In Rock ☐
Tubular ☐ Gravel Packed ☐
d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)
NONE		

2. Distance to Nearest:

Building 5 Ft. Seepage Tile Field NONE
Cess Pool NONE Sewer (non Cast Iron) NONE
Privy NONE Sewer (Cast Iron) 20'
Septic Tank NONE Barnyard NONE
Leaching Pit NONE Manure Pile NONE

3. Is water from this well to be used for human consumption?

Yes ☒ No ☐

4. Date well completed JUNE 30, 1978

5. Permanent Pump Installed? Yes ☒ No ☐
Manufacturer JACUZZI Type JET
Capacity 10 gpm. Depth of setting 30 ft.

6. Well Top Sealed? Yes ☒ No ☐

7. Pitless Adaptor Installed? Yes ☐ No ☒

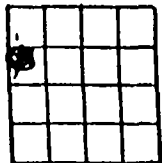
8. Well Disinfected? Yes ☒ No ☐

9. Water Sample Submitted? Yes ☐ No ☒

REMARKS: WINNEBAGO CO. PERMIT NO. 2743

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner VERN ROYER Well No. 1
Address 3512 SUNNYSIDE ROCKFORD, ILL.
Driller NEIL ALLABAUGH License No. 102-1211
11. Permit No. 16258 Date JUNE 28, 1978
12. Water from SAND & GRAVEL 13. County WINNEBAGO
at depth 60 to 65 ft. Sec. 15
14. Screen: Diam. 6 in. Twp. 44N
Length: 3 ft. Slot .030 Rge. 1E
Elev. —



15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
<u>6</u>	<u>STEEL 20LB.</u>	<u>0</u>	<u>69'</u>

SHOW
LOCATION IN
SECTION PLAT

175' S, 200' E
102' S, 100' E

16. Size Hole below casing: 6 in.
17. Static level 12 ft. below casing top which is 2 ft.
above ground level. Pumping level 12 ft. when pumping at 50
gpm for 1 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
<u>BROWN CLAY</u>	<u>5'</u>	<u>5'</u>
<u>GREY DIRTY SAND & GRAVEL</u>	<u>20'</u>	<u>25'</u>
<u>GREY CLAY</u>	<u>10'</u>	<u>35'</u>
<u>BROWN CLEAN SAND & GRAVEL</u>	<u>30'</u>	<u>65'</u>

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Neil Allabaugh DATE JAN 8, 1979

Winnabago
44N
1E
3E-11

LOG OF WATER WELL

Property owner Rock River Consolidated Well No. I

Drilled by Altheimer, Hill Co. (Chicago) 1952

Formation penetrated	Thickness	Depth of Bottom
top soil sandy	1	2
sandy gravel	3	10
fine sand - Tan	40	50
Course sand & fine sand	5	55
fine sand - small gravel	15	70
small gravel & coarse sand	32	102'

[Continue on back if necessary]

Finished in Gravel at 90 to 102' ft

Cased with 20 inch from 0 to 11 ft

and 8 inch casing from 0 to 93 ft

Size hole below casing 8 inch. Static level from surf. 27 ft

Tested capacity 108 gal. per min. Temperature 22.8°C

Water lowered to 38 ft in in 8 hrs min

Length of test 8 hrs min. Screen John E. Carter

Slot 80 Diam 7 3/8 Length 10 ft Bottom set at 102 ft
[Show location in Section Plat]

Township name Rockford Elev. NE NE Sec. 11

Description of location Kickapoo Twp. 44N

St. by old Camp Grant Rge. 1E

Signed John H. Altheimer Winnabago

Copy for Illinois State Water Survey Index:

INSTRUCTIONS TO

White Copy -
Ill. Dept. of Pub. Health
Yellow Copy - Well Contractor
Blue Copy - Well Owner

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1. Type of Well

- a. Dug ☐ Bored ☐ Hole Diam. in. Depth ft.
Curb material Buried Slab: Yes ☐ No ☐
- b. Driven ☐ Drive Pipe Diam. in. Depth ft.
- c. Drilled ☒ Finished in Drift ☒ In Rock ☐
Tubular ☐ Gravel Packed ☐
- d. Grout: ☐

(KIND)	FROM (FT.)	TO (FT.)

2. Distance to Nearest:

Building 15 Ft. Seepage Tile Field 100
Cess Pool Sewer (non Cast iron)
Privy Sewer (Cast iron) 100
Septic Tank 75 Barnyard
Leaching Pit Manure Pile

3. Well furnishes water for human consumption? Yes ☒ No ☐
4. Date well completed 11-29-82
5. Permanent Pump Installed? Yes ☒ Date 11-29-82 No ☐
Manufacturer Red Jock Type Sub Location En Well
Capacity 12 gpm. Depth of Setting 74 Ft.
6. Well Top Sealed? Yes ☒ No ☐ Type Martinson
7. Pitless Adapter Installed? Yes ☒ No ☐
Manufacturer Martinson Model Number BR10
How attached to casing? Threaded Nut
8. Well Disinfected? Yes ☒ No ☐
9. Pump and Equipment Disinfected? Yes ☒ No ☐
10. Pressure Tank Size 30 gal. Type Well X-tral
Location In Basement
11. Water Sample Submitted? Yes ☒ No ☐

REMARKS:

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner Jeff Dorr Well No.
Address Penh Rd
Driller Jack Bull License No. 92-606
11. Permit No. 105424 Date 11-5-82
12. Water from Gray Clay Formation
at depth 60 to 84 ft. Sec. 1079
14. Screen: Diam. 4 in. Twp. 44N
Length: 3 ft. Slot 0.15 Rge. 1E
Elev.

X		

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
<u>5</u>	<u>2.58 Black</u>	<u>0</u>	<u>81</u>

SHOW
LOCATION IN
SECTION PLAT
SE NW NW

16. Size Hole below casing: in.
17. Static level 60 ft. below casing top which is 10 in ft. above ground level. Pumping level 65 ft. when pumping at 12 gpm for 6 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
<u>Top Soil</u>	<u>0</u>	<u>5</u>
<u>Sand</u>	<u>5</u>	<u>60</u>
<u>Gray Clay</u>	<u>60</u>	<u>84</u>

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Jack Bull DATE 11-14-83

White & Pink Copies:
WINNEBAGO COUNTY HEALTH DEPARTMENT
Yellow Copy: Well Contractor
Golden Copy: Well Owner

Well Construction Report

THIS FORM MUST BE COMPLETED WITHIN 30 DAYS
OF WELL COMPLETION AND SENT TO

WINNEBAGO COUNTY HEALTH DEPARTMENT
401 DIVISION STREET
ROCKFORD, IL. 61104

1. Type of Well

a. Bored _____ Hole Diam. _____ in. Depth _____ ft
Buried Slab: Yes _____ No _____

b. Driven _____ Drive Pipe Diam. _____ in. Depth _____ ft
c. Drilled ☒ Finished in Drift _____ In Rock ☒

(KIND)	FROM (Ft.)	TO (Ft.)
d. Grout:		

2. Well furnishes water for human consumption? Yes ☒ No _____
3. Date well drilled 3-31-91
4. Permanent pump installed? Yes ☒ Date 3-31-91 No _____
Manufacturer Red Jacket Type sub
Location in well
Capacity 12 gpm. Depth of setting 49 ft.
5. Well top sealed? Yes ☒ No _____ Type Martinson
6. Pitless adapter installed? Yes ☒ No _____
Manufacturer Martinson Model No. BP10
How attached to casing? threaded nut
7. Well disinfected? Yes ☒ No _____
8. Pump and equipment disinfected Yes ☒ No _____

IMPORTANT NOTICE

This State Agency is requesting disclosure of information
that is necessary to accomplish the statutory purpose as
outlined under Public Act 85-0863. Disclosure of this
information is mandatory.

PRESS FIRMLY WITH BLACK PEN OR TYPE
Do Not Use Felt Pen

GEOLOGICAL AND WATER SURVEYS WELL RECORD

9. Driller Jack Bull License No. 093-00063
10. Well Site Address 4625 Liberty Dr.
11. Property Owner Floyd Ochiltree Well No. _____
12. Permit No. 6742 Date Issued 3-22-91
13. Location: _____ County WINNEBAGO
Sec. 16 SE
Twp. 44N
Rge. 1E
LOT NUMBER/SUBDIVISION: _____
PROPERTY CODE NUMBER: _____
STREET OR ROAD: 4625 Liberty Dr.

14. Water from <u>rock</u> at depth <u>80</u> ft			
15. Casing and Liner Pipe			
Diam.(in)	Kind and Weight	From (ft)	To (ft)
5	.258 black	0	40

16. Screen: Diam. _____ in, Length _____ in, Slot Size _____
17. Size hole below casing 5 in. 18. Ground Elev. _____ ft
19. Static level 6 ft below casing top which is 10' above
ground level. Pumping level 10 ft, pumping gpm for 6 ft.

20. Earth Materials Passed Through	Depth of Top	Depth of Bottom
top soil	0	5
clay	5	30
clay, sand, gravel	30	40
yellow rock	40	55
gray rock	55	70
yellow rock	70	80
rotten rock -little clay	80	85
brown rock	85	130
rotten rock	130	135
brown rock	135	145

Continue on separate sheet if necessary.

Signed Jack Bull Date 5-13-91